

# The Zero Property

Any number **multiplied by zero** is **always zero**.

Don't you know that any number **multiplied by zero** is **always zero**?

**It doesn't matter what the number may be, the answer is zero — it has to be!**

For any number **multiplied by zero** is **always zero**.

Let's practice so that you may see

that the rule is called *The Zero Property*

'cause any number **multiplied by zero** is **always zero**!

$1 \times 0 \text{ is } 0$

$2 \times 0 \text{ is } 0$

$3 \times 0 \text{ is } 0$

$4 \times 0 \text{ is } 0$

$5 \times 0 \text{ is } 0$

$6 \times 0 \text{ is } 0$

$7 \times 0 \text{ is } 0$

$8 \times 0 \text{ is } 0$

$9 \times 0 \text{ is } 0$

$10 \times 0 \text{ is } 0$

$11 \times 0 \text{ is } 0$

$12 \times 0 \text{ is } 0$

**Solve these problems.**

$$\begin{array}{r} 42 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 162 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 59 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 947 \\ \times 0 \\ \hline 0 \end{array}$$

**YOU GOT IT!**

Any number multiplied by zero is...

**zero**



## Facts of 1

Count by 1s to complete this chart.

| X | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

Multiply. Remember, any number multiplied by **1** is always that same number!

$$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

3

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

1

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

8

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

2

$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$

9

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

4

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

7

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

10

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

6

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

5

$$\begin{array}{r} 11 \\ \times 1 \\ \hline \end{array}$$

11

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

2

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

12

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

3

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

1

$$\begin{array}{r} 11 \\ \times 1 \\ \hline \end{array}$$

11

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

5

$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$

9

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

6

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

7

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

4

$$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

3

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

1

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

10

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

2

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

12

# Facts of 2

Count by 2s to complete this chart.

| X | 0 | 1 | 2 | 3 | 4 | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|---|---|---|----|----|----|----|----|----|----|----|
| 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |

Multiply.

$$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

6

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

2

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

16

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

18

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

8

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

14

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

20

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

12

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

10

$$\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$$

22

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

24

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

16

$$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

6

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

2

$$\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$$

22

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

10

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

18

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

12

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

14

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

6

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

2

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

20

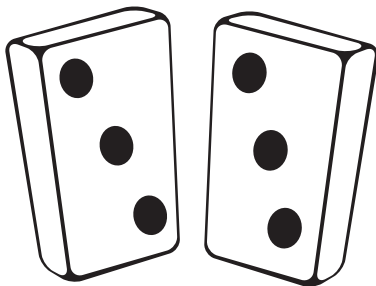
$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

24

# The Multiplication Sign (X) Means Groups of.



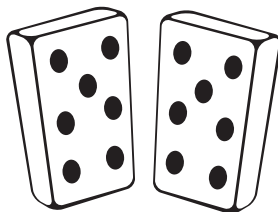
The domino has two sides. Each side has 3 dots. How many dots in all?

**2** groups of **3** dots  
**2** x **3** = **6** dots in all

Multiply to find the total number of dots.

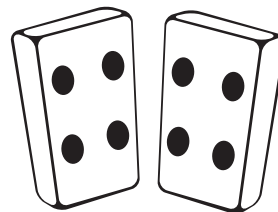
2 groups of 7 dots

2 x 7  
14 dots in all.



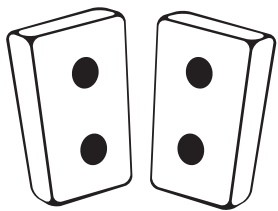
2 groups of 4 dots

2 x 4  
8 dots in all.



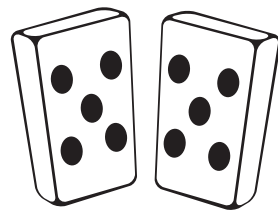
2 groups of 2 dots

2 x 2  
4 dots in all.



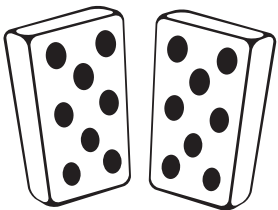
2 groups of 5 dots

2 x 5  
10 dots in all.



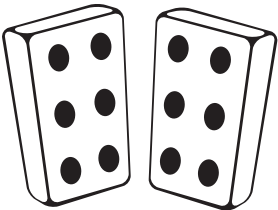
2 groups of 8 dots

2 x 8  
16 dots in all.



2 groups of 6 dots

2 x 6  
12 dots in all.



# Facts of 3

Count by 3s to complete this chart.

| X | 0 | 1 | 2 | 3 | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 3 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |

Multiply.

$$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

## Facts of 4

Count by 4s to complete this chart.

| X | 0 | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| 4 | 0 | 4 | 8 | 12 | 36 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |

Multiply.

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

12

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

4

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

32

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

36

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

16

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

28

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

40

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

24

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

20

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

44

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

48

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

32

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

12

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

4

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

44

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

20

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

36

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

24

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

28

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

16

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

0

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

12

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

4

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

40

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

48

# Facts of 5

Count by 5s to complete this chart.

| X | 0 | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |

Multiply.

$$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$



## Facts of 6

Count by 6s to complete this chart.

| X | 0 | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |

Multiply.

$$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

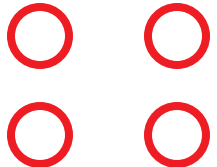
# Multiplication And Addition

Draw groups to show the multiplication problem.

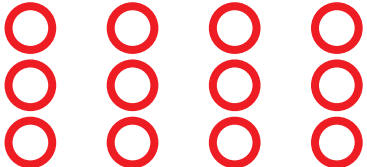
Then, add the groups together and write the answer.

1.  $2 \times 2 =$    $= 2 + 2 =$  4


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2.  $4 \times 1 =$    $= 1 + 1 + 1 + 1 =$  4


---

3.  $4 \times 3 =$    $= 3 + 3 + 3 + 3 =$  12


---

4.  $2 \times 3 =$    $= 3 + 3 =$  6


---

5.  $3 \times 3 =$    $= 3 + 3 + 3 =$  9


---

6.  $3 \times 5 =$    $= 5 + 5 + 5 =$  15

---

7.  $4 \times 2 =$    $= 2 + 2 + 2 + 2 =$  8

---

8.  $2 \times 5 =$    $= 5 + 5 =$  10

## Facts of 7

Count by 7s to complete this chart.

| X | 0 | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |

Multiply.

$$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

# Facts of 8

Count by 8s to complete this chart.

| X | 0 | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |

Multiply.

$$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

## Facts of 9

Count by 9s to complete this chart.

| X | 0 | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  |
|---|---|---|----|----|----|----|----|----|----|----|----|----|-----|
| 9 | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |

Multiply.

$$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$$



## Facts of 11

Count by 11s to complete this chart.

| X  | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  |
|----|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| 11 | 0 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |

Multiply.

$$\begin{array}{r} 11 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 11 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 11 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$$

# Facts of 12

Count by 12s to complete this chart.

| X  | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9   | 10  | 11  | 12  |
|----|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 12 | 0 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

Multiply.

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| $\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$    | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$   | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$ | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  |
| $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$   | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$ | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ |
| $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$   | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$    | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$ | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   |
| $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$   | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$   | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   |
| $\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$    | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$   | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$ | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ |



Circle each factor of 9. Write an x and an = sign in the correct place.  
 The facts go horizontally, vertically or diagonally and may be repeated.

## Find The Facts

$9 \times 3 = 27$

$5 \times 14 = 70$

$7 \times 20 = 140$

$9 \times 9 = 81$

$9 \times 6 = 54$

$3 \times 9 = 27$

$9 \times 0 = 0$

$6 \times 12 = 72$

$9 \times 1 = 9$

$1 \times 9 = 9$

$14 \times 16 = 224$

$46 \times 1 = 46$

$18 \times 9 = 162$

$9 \times 2 = 18$

$9 \times 9 = 81$

$7 \times 90 = 630$

$1 \times 9 = 9$

$41 \times 52 = 2132$

$9 \times 9 = 81$

$9 \times 2 = 18$

$43 \times 9 = 387$

$8 \times 8 = 64$

$26 \times 9 = 234$

$63 \times 10 = 630$

$9 \times 3 = 27$

$83 \times 4 = 332$

$4 \times 9 = 36$

$11 \times 19 = 209$

$18 \times 18 = 324$

$54 \times 9 = 486$

$72 \div 8 = 9$

$9 \times 18 = 162$

$10 \times 12 = 120$

$49 \times 24 = 1176$

$31 \times 1 = 31$

$36 \times 20 = 720$

$9 \times 9 = 81$

$16 \times 9 = 144$

$0 \times 9 = 0$

$15 \times 38 = 570$

$5 \times 51 = 255$

$90 \times 9 = 810$

$9 \times 4 = 36$

$9 \times 96 = 864$

$56 \times 24 = 1344$

$16 \times 10 = 160$

$9 \times 9 = 81$

$9 \times 9 = 81$

$9 \times 21 = 189$

$9 \times 9 = 81$

$45 \times 90 = 4050$

$9 \times 12 = 108$

$11 \times 19 = 209$

$7 \times 84 = 588$

$9 \times 9 = 81$

$9 \times 9 = 81$

$3 \times 9 = 27$

$0 \times 9 = 0$

$9 \times 8 = 72$

$0 \times 32 = 0$

$54 \times 48 = 2592$

$4 \times 17 = 68$

$63 \times 15 = 945$

$11 \times 9 = 99$

$9 \times 9 = 81$

$5 \times 9 = 45$

# Multiples of 5 Maze

Count by fives. Draw a line through each multiple of five as you move through the maze.

|              |    |    |    |    |    |     |            |
|--------------|----|----|----|----|----|-----|------------|
| <b>START</b> | 5  | 7  | 99 | 12 | 8  | 29  | 65         |
| 32           | 81 | 10 | 77 | 60 | 26 | 91  | 72         |
| 16           | 88 | 15 | 58 | 25 | 71 | 18  | 33         |
| 55           | 56 | 82 | 20 | 66 | 30 | 5   | 1          |
| 92           | 87 | 55 | 61 | 51 | 33 | 35  | 29         |
| 79           | 60 | 51 | 30 | 12 | 40 | 35  | 28         |
| 65           | 2  | 11 | 25 | 45 | 61 | 89  | 58         |
| 27           | 70 | 63 | 16 | 53 | 90 | 81  | 93         |
| 1            | 97 | 75 | 98 | 85 | 13 | 45  | 33         |
| 21           | 3  | 82 | 80 | 91 | 98 | 100 | <b>END</b> |

# A Helpful Strategy

Use the secret code to discover a strategy for multiplying by 2s!

## Secret Code

|          |          |           |           |           |          |          |          |          |           |           |           |          |           |
|----------|----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|
| <b>B</b> | <b>H</b> | <b>K</b>  | <b>O</b>  | <b>D</b>  | <b>I</b> | <b>L</b> | <b>S</b> | <b>T</b> | <b>F</b>  | <b>U</b>  | <b>E</b>  | <b>N</b> | <b>J</b>  |
| <b>0</b> | <b>1</b> | <b>18</b> | <b>12</b> | <b>16</b> | <b>9</b> | <b>2</b> | <b>8</b> | <b>6</b> | <b>11</b> | <b>10</b> | <b>24</b> | <b>4</b> | <b>14</b> |

|           |           |          |          |
|-----------|-----------|----------|----------|
| 2<br>x 7  | 2<br>x 5  | 4<br>x 2 | 3<br>x 2 |
| <b>14</b> | <b>10</b> | <b>8</b> | <b>6</b> |
| <b>J</b>  | <b>U</b>  | <b>S</b> | <b>T</b> |

|          |          |          |          |           |
|----------|----------|----------|----------|-----------|
| 2<br>x 3 | 1<br>x 1 | 9<br>x 1 | 2<br>x 2 | 9<br>x 2  |
| <b>6</b> | <b>1</b> | <b>9</b> | <b>4</b> | <b>18</b> |
| <b>T</b> | <b>H</b> | <b>I</b> | <b>N</b> | <b>K</b>  |

|           |           |
|-----------|-----------|
| 6<br>x 2  | 11<br>x 1 |
| <b>12</b> | <b>11</b> |
| <b>O</b>  | <b>F</b>  |

|           |           |           |          |          |           |          |
|-----------|-----------|-----------|----------|----------|-----------|----------|
| 8<br>x 2  | 12<br>x 1 | 5<br>x 2  | 2<br>x 0 | 2<br>x 1 | 12<br>x 2 | 2<br>x 4 |
| <b>16</b> | <b>12</b> | <b>10</b> | <b>0</b> | <b>2</b> | <b>24</b> | <b>8</b> |
| <b>D</b>  | <b>O</b>  | <b>U</b>  | <b>B</b> | <b>L</b> | <b>E</b>  | <b>S</b> |

# Multiplication Crossword Puzzle

Solve each problem. Fill the equations and answers into the puzzle.

$6 \times 2 = \underline{12}$     $12 \times 1 = \underline{12}$     $3 \times 7 = \underline{21}$     $2 \times 8 = \underline{16}$     $3 \times 4 = \underline{12}$

$2 \times 7 = \underline{14}$     $1 \times 6 = \underline{6}$     $2 \times 12 = \underline{24}$     $8 \times 1 = \underline{8}$     $1 \times 7 = \underline{7}$

$3 \times 1 = \underline{3}$     $9 \times 2 = \underline{18}$     $8 \times 3 = \underline{24}$     $2 \times 4 = \underline{8}$     $6 \times 3 = \underline{18}$

|   |   |   |   |    |   |    |   |    |   |    |
|---|---|---|---|----|---|----|---|----|---|----|
|   |   | 6 | x | 2  | = | 12 |   | 2  |   | 3  |
| 3 |   |   |   |    |   | x  |   | x  |   | x  |
| x |   |   |   |    |   | 1  | x | 7  | = | 7  |
| 1 | x | 6 | = | 6  |   | =  |   | =  |   | =  |
| = |   |   |   | x  |   | 12 |   | 14 |   | 21 |
| 3 |   |   |   | 3  |   |    |   |    |   |    |
|   |   |   |   | =  |   |    |   |    |   |    |
| 9 | x | 2 | = | 18 |   | 2  | x | 8  | = | 16 |
|   |   | x |   |    |   | x  |   | x  |   |    |
| 3 | x | 4 | = | 12 |   | 12 |   | 1  |   |    |
|   |   | = |   |    |   | =  |   | =  |   |    |
|   |   | 8 | x | 3  | = | 24 |   | 8  |   |    |
|   |   |   |   |    |   |    |   |    |   |    |

# Multiplication Location!

Fill in the grid by multiplying the factors.

|                                |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| $8 \times 3 = \underline{24}$  | $9 \times 8 = \underline{72}$  | $8 \times 0 = \underline{0}$   | $10 \times 8 = \underline{80}$ |
| $3 \times 4 = \underline{12}$  | $2 \times 2 = \underline{4}$   | $5 \times 8 = \underline{40}$  | $11 \times 6 = \underline{66}$ |
| $10 \times 5 = \underline{50}$ | $9 \times 2 = \underline{18}$  | $8 \times 4 = \underline{32}$  | $8 \times 2 = \underline{16}$  |
| $8 \times 7 = \underline{56}$  | $3 \times 3 = \underline{9}$   | $12 \times 8 = \underline{96}$ | $12 \times 3 = \underline{36}$ |
| $11 \times 2 = \underline{22}$ | $8 \times 8 = \underline{64}$  | $5 \times 5 = \underline{25}$  | $5 \times 7 = \underline{35}$  |
| $6 \times 8 = \underline{48}$  | $12 \times 7 = \underline{84}$ | $8 \times 1 = \underline{8}$   | $11 \times 8 = \underline{88}$ |

|    |          |    |    |    |    |    |    |    |    |   |
|----|----------|----|----|----|----|----|----|----|----|---|
| 8  | $\times$ | 3  | =  | 24 | 0  | 12 | 7  | 84 | 88 | 3 |
| 8  | 4        | 20 | 10 | 5  | 50 | 8  | 16 | 64 |    |   |
| 2  | 12       | 11 | 6  | 66 | 11 | 14 | 8  | 9  |    |   |
| 16 | 3        | 3  | 9  | 7  | 32 | 8  | 80 | 8  |    |   |
| 2  | 16       | 11 | 24 | 4  | 8  | 8  | 5  | 72 |    |   |
| 12 | 36       | 2  | 8  | 45 | 10 | 56 | 7  | 9  |    |   |
| 8  | 8        | 22 | 16 | 6  | 8  | 48 | 35 | 2  |    |   |
| 96 | 1        | 5  | 5  | 25 | 5  | 8  | 40 | 18 |    |   |
| 0  | 8        | 10 | 34 | 8  | 0  | 0  | 7  | 42 |    |   |
| 12 | 3        | 36 | 2  | 2  | 4  | 12 | 72 | 56 |    |   |

# Complete Each Puzzle!

Fill in the grid by multiplying the factors.

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>6</b>  | <b>5</b>  |
| <b>3</b> | <b>18</b> | <b>15</b> |
| <b>6</b> | <b>36</b> | <b>30</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>2</b>  | <b>6</b>  |
| <b>5</b> | <b>10</b> | <b>30</b> |
| <b>3</b> | <b>6</b>  | <b>18</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>5</b>  | <b>6</b>  |
| <b>5</b> | <b>25</b> | <b>30</b> |
| <b>2</b> | <b>10</b> | <b>12</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>2</b>  | <b>5</b>  |
| <b>1</b> | <b>2</b>  | <b>5</b>  |
| <b>6</b> | <b>12</b> | <b>30</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>3</b>  | <b>6</b>  |
| <b>5</b> | <b>15</b> | <b>30</b> |
| <b>1</b> | <b>3</b>  | <b>6</b>  |

|          |           |          |
|----------|-----------|----------|
| <b>X</b> | <b>4</b>  | <b>1</b> |
| <b>4</b> | <b>16</b> | <b>4</b> |
| <b>3</b> | <b>12</b> | <b>3</b> |

|          |           |          |
|----------|-----------|----------|
| <b>X</b> | <b>3</b>  | <b>1</b> |
| <b>6</b> | <b>18</b> | <b>6</b> |
| <b>2</b> | <b>6</b>  | <b>2</b> |

|           |           |           |
|-----------|-----------|-----------|
| <b>X</b>  | <b>6</b>  | <b>3</b>  |
| <b>12</b> | <b>72</b> | <b>36</b> |
| <b>10</b> | <b>60</b> | <b>30</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>6</b>  | <b>4</b>  |
| <b>9</b> | <b>54</b> | <b>36</b> |
| <b>8</b> | <b>48</b> | <b>32</b> |

|          |           |          |
|----------|-----------|----------|
| <b>X</b> | <b>5</b>  | <b>1</b> |
| <b>8</b> | <b>40</b> | <b>8</b> |
| <b>6</b> | <b>30</b> | <b>6</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>2</b>  | <b>5</b>  |
| <b>3</b> | <b>6</b>  | <b>15</b> |
| <b>7</b> | <b>14</b> | <b>35</b> |

|           |           |           |
|-----------|-----------|-----------|
| <b>X</b>  | <b>5</b>  | <b>2</b>  |
| <b>10</b> | <b>50</b> | <b>20</b> |
| <b>11</b> | <b>55</b> | <b>22</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>6</b>  | <b>5</b>  |
| <b>5</b> | <b>30</b> | <b>25</b> |
| <b>7</b> | <b>42</b> | <b>35</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>3</b>  | <b>5</b>  |
| <b>7</b> | <b>21</b> | <b>35</b> |
| <b>5</b> | <b>15</b> | <b>25</b> |

|          |           |           |
|----------|-----------|-----------|
| <b>X</b> | <b>2</b>  | <b>6</b>  |
| <b>9</b> | <b>18</b> | <b>54</b> |
| <b>7</b> | <b>14</b> | <b>42</b> |

# Problem Solving

Read each problem. Then, write an equation to solve it.

1. At the fair, six people can run the egg-and-spoon race at one time. There are eight races. How many total people can run the egg-and-spoon race?

$$\begin{array}{r} \phantom{x} \boxed{6} \\ x \phantom{0} \boxed{8} \\ \hline \phantom{00} \boxed{48} \end{array}$$

2. Six people can run the three-legged race at one time. There are nine races. How many total people can run the three-legged race?

$$\begin{array}{r} \phantom{x} \boxed{6} \\ x \phantom{0} \boxed{9} \\ \hline \phantom{00} \boxed{54} \end{array}$$

3. Each Ferris wheel carriage holds five people. There are nine carriages. How many people can ride at one time?

$$\begin{array}{r} \phantom{x} \boxed{5} \\ x \phantom{0} \boxed{9} \\ \hline \phantom{00} \boxed{45} \end{array}$$

4. The roller coaster has eight cars. Three people fit into each car. How many people can ride at one time?

$$\begin{array}{r} \phantom{x} \boxed{8} \\ x \phantom{0} \boxed{3} \\ \hline \phantom{00} \boxed{24} \end{array}$$

5. Saltwater taffy is sold seven pieces for one dollar. How many pieces can eight dollars buy?

$$\begin{array}{r} \phantom{x} \boxed{7} \\ x \phantom{0} \boxed{8} \\ \hline \phantom{00} \boxed{56} \end{array}$$

6. Game booth tickets are sold six for one dollar. How many tickets can five dollars buy?

$$\begin{array}{r} \phantom{x} \boxed{6} \\ x \phantom{0} \boxed{5} \\ \hline \phantom{00} \boxed{30} \end{array}$$

7. Extra-large balloons cost three dollars a piece. How much do nine balloons cost?

$$\begin{array}{r} \phantom{x} \boxed{3} \\ x \phantom{0} \boxed{9} \\ \hline \phantom{00} \boxed{27} \end{array}$$

# Real-Life Problem Solving

Multiplication word problems.

1. Jeremy and Melissa each raked 4 piles of leaves for their neighbors. How many piles of leaves were raked in all?

$$\underline{2} \times \underline{4} = \underline{8}$$

5. Last year, it rained 9 days each month. How many days did it rain last year?

$$\underline{9} \times \underline{12} = \underline{108}$$

2. Sara and Cori spent 3 hours at the mall on Saturday. Leah and Rachel were there twice as long! How many hours were Leah and Rachel at the mall?

$$\underline{3} \times \underline{2} = \underline{6}$$

6. In the last 60 minutes, nine customers came into your video game store. Six customers bought two video games each. How many video games did you sell in the last hour?

$$\underline{6} \times \underline{2} = \underline{12}$$

3. Michael and his friends counted the number of commercials in 8 television programs. Each program had 9 commercials. How many commercials did they count altogether?

$$\underline{8} \times \underline{9} = \underline{72}$$

7. You and six of your friends are going to the movies. The admission tickets cost \$5 each. How much will it cost for all of you to see the movie?

$$\underline{7} \times \underline{5} = \underline{35}$$

4. The coffee shop employees brewed 8 containers of coffee in two hours. Each container served 12 cups of coffee. How many cups of coffee did they serve altogether?

$$\underline{8} \times \underline{12} = \underline{96}$$

8. The art museum has six floors of art exhibits. Each floor has 7 galleries. How many galleries are in the museum altogether?

$$\underline{6} \times \underline{7} = \underline{42}$$

## Fill in the Missing Factor!

$$\begin{array}{r} 4 \\ \times \boxed{?} \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times \boxed{3} \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \\ \times \boxed{3} \\ \hline 18 \end{array}$$

$$\begin{array}{r} 9 \\ \times \boxed{4} \\ \hline 36 \end{array}$$

$$\begin{array}{r} 5 \\ \times \boxed{4} \\ \hline 20 \end{array}$$

$$\begin{array}{r} 2 \\ \times \boxed{4} \\ \hline 8 \end{array}$$

$$\begin{array}{r} 5 \\ \times \boxed{3} \\ \hline 15 \end{array}$$

$$\begin{array}{r} 9 \\ \times \boxed{3} \\ \hline 27 \end{array}$$

$$\begin{array}{r} 3 \\ \times \boxed{5} \\ \hline 15 \end{array}$$

$$\begin{array}{r} 4 \\ \times \boxed{5} \\ \hline 20 \end{array}$$

$$\begin{array}{r} 3 \\ \times \boxed{7} \\ \hline 21 \end{array}$$

$$\begin{array}{r} 11 \\ \times \boxed{4} \\ \hline 44 \end{array}$$

$$\begin{array}{r} 4 \\ \times \boxed{7} \\ \hline 28 \end{array}$$

$$\begin{array}{r} 12 \\ \times \boxed{3} \\ \hline 36 \end{array}$$

$$\begin{array}{r} 10 \\ \times \boxed{2} \\ \hline 20 \end{array}$$

$$\begin{array}{r} 8 \\ \times \boxed{2} \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times \boxed{2} \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ \times \boxed{9} \\ \hline 9 \end{array}$$

$$\begin{array}{r} 3 \\ \times \boxed{6} \\ \hline 18 \end{array}$$

$$\begin{array}{r} 11 \\ \times \boxed{2} \\ \hline 22 \end{array}$$

$$\begin{array}{r} 6 \\ \times \boxed{2} \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ \times \boxed{11} \\ \hline 33 \end{array}$$

# Straight Up Multiplication!

Fill in the grid by multiplying each factor.

| <b>X</b>  | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b>  | <b>5</b>  | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>10</b> | <b>11</b>  | <b>12</b> |
|-----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| <b>1</b>  | 1        | 2        | 3        | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11         | 12        |
| <b>2</b>  | 2        | 4        | <b>6</b> | 8         | 10        | 12        | 14        | 16        | 18        | 20        | 22         | 24        |
| <b>3</b>  | 3        | 6        | 9        | 12        | <b>15</b> | 18        | 21        | 24        | <b>27</b> | 30        | 33         | 36        |
| <b>4</b>  | 4        | 8        | 12       | 16        | 20        | 24        | 28        | 32        | 36        | 40        | 44         | 48        |
| <b>5</b>  | 5        | 10       | 15       | 20        | 25        | 30        | <b>35</b> | 40        | 45        | 50        | 55         | <b>60</b> |
| <b>6</b>  | 6        | 12       | 18       | 24        | 30        | 36        | 42        | 48        | 54        | 60        | 66         | 72        |
| <b>7</b>  | 7        | 14       | 21       | <b>28</b> | 35        | 42        | 49        | 56        | 63        | <b>70</b> | 77         | 84        |
| <b>8</b>  | 8        | 16       | 24       | 32        | 40        | <b>48</b> | 56        | 64        | 72        | 80        | 88         | 96        |
| <b>9</b>  | 9        | 18       | 27       | 36        | 45        | 54        | 63        | <b>72</b> | 81        | 90        | 99         | 108       |
| <b>10</b> | 10       | 20       | 30       | 40        | 50        | 60        | 70        | 80        | 90        | 100       | <b>110</b> | 120       |
| <b>11</b> | 11       | 22       | 33       | 44        | 55        | 66        | 77        | 88        | 99        | 110       | 121        | 132       |
| <b>12</b> | 12       | 24       | 36       | 48        | 60        | 72        | 84        | 96        | 108       | 120       | 132        | 144       |



# What's The Answer?

Fill in the circle next to the correct product.

$$6 \times 7 = \begin{matrix} \textcircled{\phantom{0}} 41 \\ \textbullet \textcircled{42} \\ \textcircled{\phantom{0}} 48 \end{matrix}$$

$$8 \times 6 = \begin{matrix} \textcircled{\phantom{0}} 42 \\ \textbullet \textcircled{48} \\ \textcircled{\phantom{0}} 56 \end{matrix}$$

$$7 \times 3 = \begin{matrix} \textbullet \textcircled{21} \\ \textcircled{\phantom{0}} 28 \\ \textcircled{\phantom{0}} 18 \end{matrix}$$

$$9 \times 9 = \begin{matrix} \textcircled{\phantom{0}} 99 \\ \textcircled{\phantom{0}} 64 \\ \textbullet \textcircled{81} \end{matrix}$$

$$4 \times 7 = \begin{matrix} \textcircled{\phantom{0}} 27 \\ \textbullet \textcircled{28} \\ \textcircled{\phantom{0}} 21 \end{matrix}$$

$$9 \times 5 = \begin{matrix} \textbullet \textcircled{45} \\ \textcircled{\phantom{0}} 40 \\ \textcircled{\phantom{0}} 50 \end{matrix}$$

$$4 \times 6 = \begin{matrix} \textbullet \textcircled{24} \\ \textcircled{\phantom{0}} 18 \\ \textcircled{\phantom{0}} 36 \end{matrix}$$

$$8 \times 9 = \begin{matrix} \textcircled{\phantom{0}} 64 \\ \textbullet \textcircled{72} \\ \textcircled{\phantom{0}} 54 \end{matrix}$$

$$7 \times 8 = \begin{matrix} \textbullet \textcircled{56} \\ \textcircled{\phantom{0}} 54 \\ \textcircled{\phantom{0}} 63 \end{matrix}$$

$$5 \times 8 = \begin{matrix} \textcircled{\phantom{0}} 35 \\ \textbullet \textcircled{40} \\ \textcircled{\phantom{0}} 48 \end{matrix}$$

$$6 \times 6 = \begin{matrix} \textcircled{\phantom{0}} 42 \\ \textcircled{\phantom{0}} 30 \\ \textbullet \textcircled{36} \end{matrix}$$

$$7 \times 7 = \begin{matrix} \textcircled{\phantom{0}} 39 \\ \textbullet \textcircled{49} \\ \textcircled{\phantom{0}} 48 \end{matrix}$$

$$9 \times 7 = \begin{matrix} \textcircled{\phantom{0}} 56 \\ \textcircled{\phantom{0}} 64 \\ \textbullet \textcircled{63} \end{matrix}$$

$$8 \times 8 = \begin{matrix} \textcircled{\phantom{0}} 68 \\ \textbullet \textcircled{64} \\ \textcircled{\phantom{0}} 72 \end{matrix}$$

$$7 \times 2 = \begin{matrix} \textbullet \textcircled{14} \\ \textcircled{\phantom{0}} 12 \\ \textcircled{\phantom{0}} 16 \end{matrix}$$

$$4 \times 8 = \begin{matrix} \textcircled{\phantom{0}} 24 \\ \textbullet \textcircled{32} \\ \textcircled{\phantom{0}} 36 \end{matrix}$$

$$5 \times 5 = \begin{matrix} \textcircled{\phantom{0}} 15 \\ \textcircled{\phantom{0}} 30 \\ \textbullet \textcircled{25} \end{matrix}$$

$$5 \times 6 = \begin{matrix} \textbullet \textcircled{30} \\ \textcircled{\phantom{0}} 35 \\ \textcircled{\phantom{0}} 40 \end{matrix}$$

$$8 \times 2 = \begin{matrix} \textcircled{\phantom{0}} 12 \\ \textcircled{\phantom{0}} 14 \\ \textbullet \textcircled{16} \end{matrix}$$

$$7 \times 5 = \begin{matrix} \textcircled{\phantom{0}} 45 \\ \textbullet \textcircled{35} \\ \textcircled{\phantom{0}} 40 \end{matrix}$$

$$3 \times 9 = \begin{matrix} \textbullet \textcircled{27} \\ \textcircled{\phantom{0}} 28 \\ \textcircled{\phantom{0}} 36 \end{matrix}$$

# Multiplication and Division Concepts

Words to understand.

**DIVISION:** An operation that separates a unit into parts.

**DIVIDEND:** The quantity you are dividing.

**DIVISOR:** The number you are dividing into the **DIVIDEND**.

**QUOTIENT:** The answer in division; the result of dividing a **DIVIDEND** by a **DIVISOR**.

$$2 \overline{) 8} \quad \text{OR} \quad \begin{array}{l} \text{quotient} \\ \hline \text{divisor} \overline{) \text{dividend}} \end{array}$$

Count the objects in each set to determine the **DIVIDEND**.

Circle the equal groups.

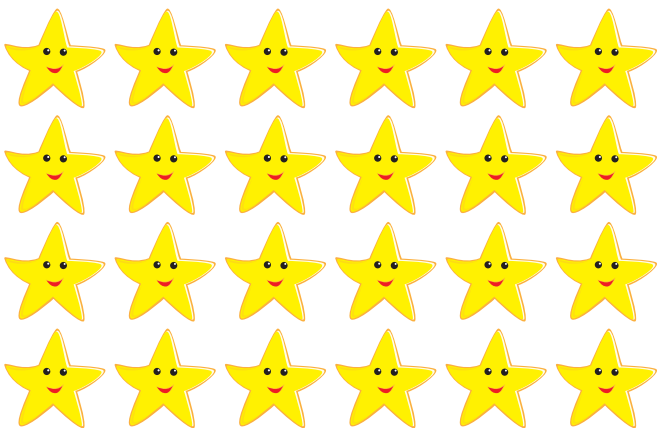
Count the objects in each group to determine the **QUOTIENT**.

Circle groups of 2.



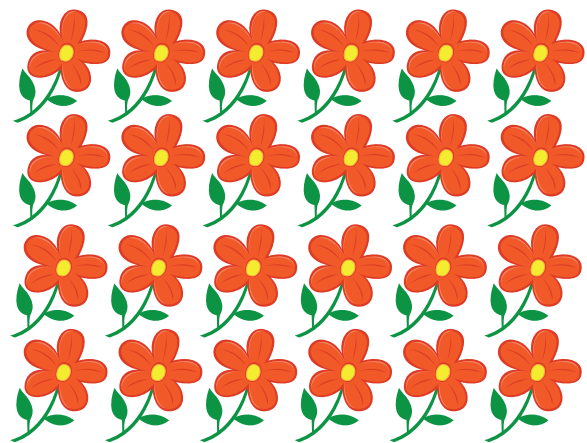
$$\underline{8} \div \underline{2} = \underline{4}$$

Circle groups of 4.

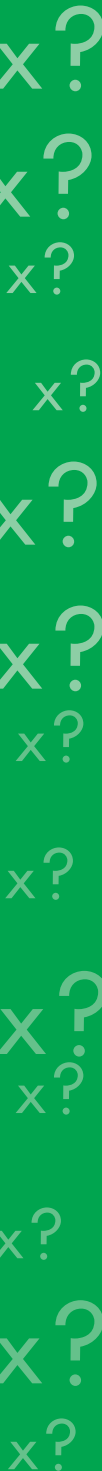


$$\underline{24} \div \underline{4} = \underline{6}$$

Circle groups of 3.



$$\underline{24} \div \underline{3} = \underline{8}$$



## Fact Families

Write two multiplication and two division sentences with each set of numbers.

10, 5, 2

$$\underline{5} \times \underline{2} = \underline{10}$$

$$\underline{2} \times \underline{5} = \underline{10}$$

$$\underline{10} \div \underline{5} = \underline{2}$$

$$\underline{10} \div \underline{2} = \underline{5}$$

6, 3, 18

$$\underline{6} \times \underline{3} = \underline{18}$$

$$\underline{3} \times \underline{6} = \underline{18}$$

$$\underline{18} \div \underline{6} = \underline{3}$$

$$\underline{18} \div \underline{3} = \underline{6}$$

7, 4, 28

$$\underline{7} \times \underline{4} = \underline{28}$$

$$\underline{4} \times \underline{7} = \underline{28}$$

$$\underline{28} \div \underline{7} = \underline{4}$$

$$\underline{28} \div \underline{4} = \underline{7}$$

2, 9, 18

$$\underline{2} \times \underline{9} = \underline{18}$$

$$\underline{9} \times \underline{2} = \underline{18}$$

$$\underline{18} \div \underline{2} = \underline{9}$$

$$\underline{18} \div \underline{9} = \underline{2}$$

# Multiplication & Division

Complete a partner multiplication fact to solve each division fact.

$$\begin{array}{r} \boxed{5} \\ \times 6 \\ \hline 30 \end{array}$$

$$6 \overline{)30}$$

$$\begin{array}{r} \boxed{3} \\ \times 7 \\ \hline 21 \end{array}$$

$$7 \overline{)21}$$

$$\begin{array}{r} \boxed{5} \\ \times 8 \\ \hline 40 \end{array}$$

$$8 \overline{)40}$$

$$\begin{array}{r} \boxed{2} \\ \times 9 \\ \hline 18 \end{array}$$

$$9 \overline{)18}$$

$$\begin{array}{r} \boxed{2} \\ \times 6 \\ \hline 12 \end{array}$$

$$6 \overline{)12}$$

$$\begin{array}{r} \boxed{5} \\ \times 5 \\ \hline 25 \end{array}$$

$$5 \overline{)25}$$

$$\begin{array}{r} \boxed{7} \\ \times 8 \\ \hline 56 \end{array}$$

$$8 \overline{)56}$$

$$\begin{array}{r} \boxed{3} \\ \times 7 \\ \hline 21 \end{array}$$

$$7 \overline{)21}$$

$$\begin{array}{r} \boxed{8} \\ \times 3 \\ \hline 24 \end{array}$$

$$3 \overline{)24}$$

$$\begin{array}{r} \boxed{8} \\ \times 6 \\ \hline 48 \end{array}$$

$$6 \overline{)48}$$

# Division Word Problems

Read each problem. Then, write a division equation to solve it.

1. Twenty-four students in gym class are split into groups of four. How many groups are formed?

$$\begin{array}{r} \boxed{6} \\ \boxed{4} \overline{) \boxed{24}} \end{array}$$


---

2. There are forty-two students eating in the cafeteria. Seven students are sitting at each table. How many tables are used?

$$\begin{array}{r} \boxed{6} \\ \boxed{7} \overline{) \boxed{42}} \end{array}$$


---

3. Karen wrote five pages of her twenty-five page English paper each day. How many days did it take Karen to finish her report?

$$\begin{array}{r} \boxed{5} \\ \boxed{5} \overline{) \boxed{25}} \end{array}$$


---

4. The school store sells pencils for ten cents each. Joey has fifty cents. How many pencils can he buy?

$$\begin{array}{r} \boxed{5} \\ \boxed{10} \overline{) \boxed{50}} \end{array}$$


---

5. Mia has forty-nine days left in the school year. How many full weeks of school are left?

$$\begin{array}{r} \boxed{7} \\ \boxed{7} \overline{) \boxed{49}} \end{array}$$


---

6. Thirty students in art class are split into groups of five. How many groups are formed?

$$\begin{array}{r} \boxed{6} \\ \boxed{5} \overline{) \boxed{30}} \end{array}$$


---

7. Eight bags of candy weigh sixteen pounds altogether. How many pounds does each bag of candy weigh?

$$\begin{array}{r} \boxed{2} \\ \boxed{8} \overline{) \boxed{16}} \end{array}$$

Name: \_\_\_\_\_ Time

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Correct

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$$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

33

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 5 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

Name: \_\_\_\_\_ Time 

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$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 0 \\ \times 1 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

Name: \_\_\_\_\_ Time

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Correct

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$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$$

35

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

Name: \_\_\_\_\_ Time

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Correct

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$$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$$

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$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 9 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$$

37

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|---|
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$$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

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$$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$$

0

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

20

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

1

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 11 \\ \times 0 \\ \hline \end{array}$$

0

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

9

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

16

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

6

$$\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$$

0

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

2

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

16

$$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$$

0

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$$

0

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

6

$$\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$$

0

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

0

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

5

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

10

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

18

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

2

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

12

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

18

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

3

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

12

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

12

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

8

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

14

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

0

$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

30

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

16

$$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$$

0

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

18

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

10

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

24

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

5

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

4

$$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$$

0

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

12

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

24

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

12

$$\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$$

0

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

20

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

7

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

8

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

0

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

6

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|  |  |  |  |   |  |  |  |  |   |
|--|--|--|--|---|--|--|--|--|---|
| $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$   | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$  | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$  | $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$  | $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$  | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$  | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$  | $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$  | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$   |
| $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$ | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$  | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$   | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$ | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$  | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$  | $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$  | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$  | $\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$    |
| $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$  | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$  | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$  | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$  | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$ | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$  | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$  | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$  | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$    |
| $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$  | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$  | $\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$  | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$  | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$ | $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$  | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$  | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$  | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ |
| $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$  | $\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$  | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$ | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$   | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$ | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$   | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$   |
| $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$ | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$   | $\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$   | $\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$  | $\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$ | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$  | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$   |
| $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$ | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$  | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$  | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$ | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$ | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$  | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$ | $\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$ | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$   |
| $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$ | $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$ | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$ | $\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$   | $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$ | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$ | $\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$   | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$   |
| $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$   | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$  | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$  | $\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$  | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$  | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$  | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$  | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$  |
| $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$  | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$ | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$   | $\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$  | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$ | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$  | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$   |

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|   |  |  |   |   |  |  |   |   |  |
|---|--|--|---|---|--|--|---|---|--|
| $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$ | $\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$ | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$ | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$ | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$ | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$ | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$ | $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$ | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ |
|---|--|--|---|---|--|--|---|---|--|

|  |  |   |  |   |   |  |  |  |   |
|--|--|---|--|---|---|--|--|--|---|
| $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$ | $\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$ | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$ | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$ | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$ | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$ |
|--|--|---|--|---|---|--|--|--|---|

|   |  |   |   |   |   |  |   |  |   |
|---|--|---|---|---|---|--|---|--|---|
| $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$ | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$ | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$ | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$ | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$ | $\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$ | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$ | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$ |
|---|--|---|---|---|---|--|---|--|---|

|   |  |   |   |  |   |   |   |  |  |
|---|--|---|---|--|---|---|---|--|--|
| $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$ | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$ | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$ | $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$ | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$ | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ | $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$ | $\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$ | $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$ |
|---|--|---|---|--|---|---|---|--|--|

|  |   |   |  |   |   |  |  |  |   |
|--|---|---|--|---|---|--|--|--|---|
| $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$ | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$ | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$ | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$ | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$ | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$ | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$ | $\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$ | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$ |
|--|---|---|--|---|---|--|--|--|---|

|   |   |   |  |   |   |  |  |   |   |
|---|---|---|--|---|---|--|--|---|---|
| $\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$ | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$ | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$ | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$ | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$ | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$ | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$ | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$ |
|---|---|---|--|---|---|--|--|---|---|

|  |   |   |   |   |  |  |   |   |  |
|--|---|---|---|---|--|--|---|---|--|
| $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$ | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$ | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$ | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$ | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$ | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$ | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$ |
|--|---|---|---|---|--|--|---|---|--|

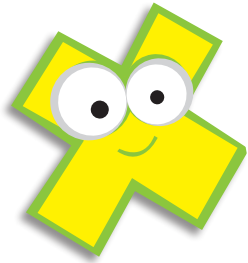
|  |   |  |   |   |  |   |  |  |   |
|--|---|--|---|---|--|---|--|--|---|
| $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$ | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$ | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$ | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$ | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$ | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$ |
|--|---|--|---|---|--|---|--|--|---|

|  |   |   |  |   |  |  |  |   |  |
|--|---|---|--|---|--|--|--|---|--|
| $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$ | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$ | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$ | $\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$ | $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$ | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$ | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ |
|--|---|---|--|---|--|--|--|---|--|

|  |   |   |  |   |  |   |   |   |   |
|--|---|---|--|---|--|---|---|---|---|
| $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$ | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$ | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$ | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$ | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$ | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$ | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$ |
|--|---|---|--|---|--|---|---|---|---|

Time Test: 100 Problems

# YOU CAN MULTIPLY

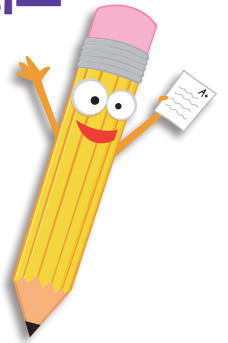


Can you snap your fingers? Can you clap your hands?  
Follow with my rhythm and join this swingin' band!

**You can learn to multiply by starting really slow.  
Practice each and every day and all the facts you'll know!**

We'll start with one and move on up and—if I might suggest—  
We'll speed the tempo up a bit. I know you'll do your best!

**You can learn to multiply by starting really slow.  
Practice each and every day and all the facts you'll know.**



Using the worksheets on pages 43-45, point to each multiplication fact as you listen and sing along.

### **Multiplication Rap For The Expert**

Drills the facts 1 through 12 straight through with the answers.

### **Multiplication Rap For The Expert**

Drills the facts 1 through 12 straight through **WITHOUT** the answers. Use the worksheets on pages 46 – 48. Write the product of each set of factors.



**TIP** – Laminate pages 43 – 48 at a copy center. Then use a dry erase marker for repeated practice.

## Facts of 1

$1 \times 1 = 1$

$1 \times 2 = 2$

$1 \times 3 = 3$

$1 \times 4 = 4$

$1 \times 5 = 5$

$1 \times 6 = 6$

$1 \times 7 = 7$

$1 \times 8 = 8$

$1 \times 9 = 9$

$1 \times 10 = 10$

$1 \times 11 = 11$

$1 \times 12 = 12$

## Facts of 2

$2 \times 1 = 2$

$2 \times 2 = 4$

$2 \times 3 = 6$

$2 \times 4 = 8$

$2 \times 5 = 10$

$2 \times 6 = 12$

$2 \times 7 = 14$

$2 \times 8 = 16$

$2 \times 9 = 18$

$2 \times 10 = 20$

$2 \times 11 = 22$

$2 \times 12 = 24$

## Facts of 3

$3 \times 1 = 3$

$3 \times 2 = 6$

$3 \times 3 = 9$

$3 \times 4 = 12$

$3 \times 5 = 15$

$3 \times 6 = 18$

$3 \times 7 = 21$

$3 \times 8 = 24$

$3 \times 9 = 27$

$3 \times 10 = 30$

$3 \times 11 = 33$

$3 \times 12 = 36$

## Facts of 4

$4 \times 1 = 4$

$4 \times 2 = 8$

$4 \times 3 = 12$

$4 \times 4 = 16$

$4 \times 5 = 20$

$4 \times 6 = 24$

$4 \times 7 = 28$

$4 \times 8 = 32$

$4 \times 9 = 36$

$4 \times 10 = 40$

$4 \times 11 = 44$

$4 \times 12 = 48$

## Facts of 5

$$\begin{aligned}5 \times 1 &= 5 \\5 \times 2 &= 10 \\5 \times 3 &= 15 \\5 \times 4 &= 20 \\5 \times 5 &= 25 \\5 \times 6 &= 30 \\5 \times 7 &= 35 \\5 \times 8 &= 40 \\5 \times 9 &= 45 \\5 \times 10 &= 50 \\5 \times 11 &= 55 \\5 \times 12 &= 60\end{aligned}$$

## Facts of 6

$$\begin{aligned}6 \times 1 &= 6 \\6 \times 2 &= 12 \\6 \times 3 &= 18 \\6 \times 4 &= 24 \\6 \times 5 &= 30 \\6 \times 6 &= 36 \\6 \times 7 &= 42 \\6 \times 8 &= 48 \\6 \times 9 &= 54 \\6 \times 10 &= 60 \\6 \times 11 &= 66 \\6 \times 12 &= 72\end{aligned}$$

## Facts of 7

$$\begin{aligned}7 \times 1 &= 7 \\7 \times 2 &= 14 \\7 \times 3 &= 21 \\7 \times 4 &= 28 \\7 \times 5 &= 35 \\7 \times 6 &= 42 \\7 \times 7 &= 49 \\7 \times 8 &= 56 \\7 \times 9 &= 63 \\7 \times 10 &= 70 \\7 \times 11 &= 77 \\7 \times 12 &= 84\end{aligned}$$

## Facts of 8

$$\begin{aligned}8 \times 1 &= 8 \\8 \times 2 &= 16 \\8 \times 3 &= 24 \\8 \times 4 &= 32 \\8 \times 5 &= 40 \\8 \times 6 &= 48 \\8 \times 7 &= 56 \\8 \times 8 &= 64 \\8 \times 9 &= 72 \\8 \times 10 &= 80 \\8 \times 11 &= 88 \\8 \times 12 &= 96\end{aligned}$$

## Facts of 9

$$\begin{aligned}9 \times 1 &= 9 \\9 \times 2 &= 18 \\9 \times 3 &= 27 \\9 \times 4 &= 36 \\9 \times 5 &= 45 \\9 \times 6 &= 54 \\9 \times 7 &= 63 \\9 \times 8 &= 72 \\9 \times 9 &= 81 \\9 \times 10 &= 90 \\9 \times 11 &= 99 \\9 \times 12 &= 108\end{aligned}$$

## Facts of 10

$$\begin{aligned}10 \times 1 &= 10 \\10 \times 2 &= 20 \\10 \times 3 &= 30 \\10 \times 4 &= 40 \\10 \times 5 &= 50 \\10 \times 6 &= 60 \\10 \times 7 &= 70 \\10 \times 8 &= 80 \\10 \times 9 &= 90 \\10 \times 10 &= 100 \\10 \times 11 &= 110 \\10 \times 12 &= 120\end{aligned}$$

## Facts of 11

$$\begin{aligned}11 \times 1 &= 11 \\11 \times 2 &= 22 \\11 \times 3 &= 33 \\11 \times 4 &= 44 \\11 \times 5 &= 55 \\11 \times 6 &= 66 \\11 \times 7 &= 77 \\11 \times 8 &= 88 \\11 \times 9 &= 99 \\11 \times 10 &= 110 \\11 \times 11 &= 121 \\11 \times 12 &= 132\end{aligned}$$

## Facts of 12

$$\begin{aligned}12 \times 1 &= 12 \\12 \times 2 &= 24 \\12 \times 3 &= 36 \\12 \times 4 &= 48 \\12 \times 5 &= 60 \\12 \times 6 &= 72 \\12 \times 7 &= 84 \\12 \times 8 &= 96 \\12 \times 9 &= 108 \\12 \times 10 &= 120 \\12 \times 11 &= 132 \\12 \times 12 &= 144\end{aligned}$$

## Facts of 1

$$\begin{aligned} 1 \times 1 &= \\ 1 \times 2 &= \\ 1 \times 3 &= \\ 1 \times 4 &= \\ 1 \times 5 &= \\ 1 \times 6 &= \\ 1 \times 7 &= \\ 1 \times 8 &= \\ 1 \times 9 &= \\ 1 \times 10 &= \\ 1 \times 11 &= \\ 1 \times 12 &= \end{aligned}$$

## Facts of 2

$$\begin{aligned} 2 \times 1 &= \\ 2 \times 2 &= \\ 2 \times 3 &= \\ 2 \times 4 &= \\ 2 \times 5 &= \\ 2 \times 6 &= \\ 2 \times 7 &= \\ 2 \times 8 &= \\ 2 \times 9 &= \\ 2 \times 10 &= \\ 2 \times 11 &= \\ 2 \times 12 &= \end{aligned}$$

## Facts of 3

$$\begin{aligned} 3 \times 1 &= \\ 3 \times 2 &= \\ 3 \times 3 &= \\ 3 \times 4 &= \\ 3 \times 5 &= \\ 3 \times 6 &= \\ 3 \times 7 &= \\ 3 \times 8 &= \\ 3 \times 9 &= \\ 3 \times 10 &= \\ 3 \times 11 &= \\ 3 \times 12 &= \end{aligned}$$

## Facts of 4

$$\begin{aligned} 4 \times 1 &= \\ 4 \times 2 &= \\ 4 \times 3 &= \\ 4 \times 4 &= \\ 4 \times 5 &= \\ 4 \times 6 &= \\ 4 \times 7 &= \\ 4 \times 8 &= \\ 4 \times 9 &= \\ 4 \times 10 &= \\ 4 \times 11 &= \\ 4 \times 12 &= \end{aligned}$$

## Facts of 5

$5 \times 1 =$

$5 \times 2 =$

$5 \times 3 =$

$5 \times 4 =$

$5 \times 5 =$

$5 \times 6 =$

$5 \times 7 =$

$5 \times 8 =$

$5 \times 9 =$

$5 \times 10 =$

$5 \times 11 =$

$5 \times 12 =$

## Facts of 6

$6 \times 1 =$

$6 \times 2 =$

$6 \times 3 =$

$6 \times 4 =$

$6 \times 5 =$

$6 \times 6 =$

$6 \times 7 =$

$6 \times 8 =$

$6 \times 9 =$

$6 \times 10 =$

$6 \times 11 =$

$6 \times 12 =$

## Facts of 7

$7 \times 1 =$

$7 \times 2 =$

$7 \times 3 =$

$7 \times 4 =$

$7 \times 5 =$

$7 \times 6 =$

$7 \times 7 =$

$7 \times 8 =$

$7 \times 9 =$

$7 \times 10 =$

$7 \times 11 =$

$7 \times 12 =$

## Facts of 8

$8 \times 1 =$

$8 \times 2 =$

$8 \times 3 =$

$8 \times 4 =$

$8 \times 5 =$

$8 \times 6 =$

$8 \times 7 =$

$8 \times 8 =$

$8 \times 9 =$

$8 \times 10 =$

$8 \times 11 =$

$8 \times 12 =$

### Facts of 9

$$\begin{aligned} 9 \times 1 &= \\ 9 \times 2 &= \\ 9 \times 3 &= \\ 9 \times 4 &= \\ 9 \times 5 &= \\ 9 \times 6 &= \\ 9 \times 7 &= \\ 9 \times 8 &= \\ 9 \times 9 &= \\ 9 \times 10 &= \\ 9 \times 11 &= \\ 9 \times 12 &= \end{aligned}$$

### Facts of 10

$$\begin{aligned} 10 \times 1 &= \\ 10 \times 2 &= \\ 10 \times 3 &= \\ 10 \times 4 &= \\ 10 \times 5 &= \\ 10 \times 6 &= \\ 10 \times 7 &= \\ 10 \times 8 &= \\ 10 \times 9 &= \\ 10 \times 10 &= \\ 10 \times 11 &= \\ 10 \times 12 &= \end{aligned}$$

### Facts of 11

$$\begin{aligned} 11 \times 1 &= \\ 11 \times 2 &= \\ 11 \times 3 &= \\ 11 \times 4 &= \\ 11 \times 5 &= \\ 11 \times 6 &= \\ 11 \times 7 &= \\ 11 \times 8 &= \\ 11 \times 9 &= \\ 11 \times 10 &= \\ 11 \times 11 &= \\ 11 \times 12 &= \end{aligned}$$

### Facts of 12

$$\begin{aligned} 12 \times 1 &= \\ 12 \times 2 &= \\ 12 \times 3 &= \\ 12 \times 4 &= \\ 12 \times 5 &= \\ 12 \times 6 &= \\ 12 \times 7 &= \\ 12 \times 8 &= \\ 12 \times 9 &= \\ 12 \times 10 &= \\ 12 \times 11 &= \\ 12 \times 12 &= \end{aligned}$$