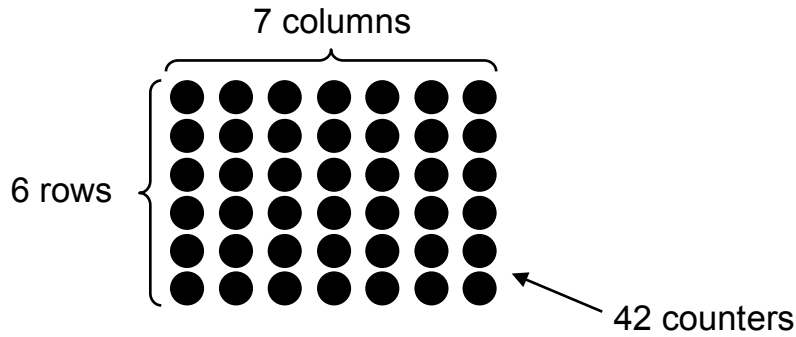


Lesson
4.1

Reteach

Example There are 42 counters. The counters are in 6 equal rows.
How many counters are in each row?



There are 42 counters, 6 rows, and 7 columns.
Division equation:

$$\begin{array}{ccccccc}
 42 & \div & 6 & = & 7 \\
 \uparrow & & \uparrow & & \uparrow \\
 \text{dividend} & & \text{divisor} & & \text{quotient}
 \end{array}$$

$$\begin{array}{r}
 7 \leftarrow \text{quotient} \\
 \text{divisor} \rightarrow 6 \overline{)42} \\
 \uparrow \\
 \text{dividend}
 \end{array}$$

There are 7 counters in each row.

Find the quotient.

1. There are 27 counters. The counters are in 3 equal rows.
How many counters are in each row?

3 rows of _____

$$27 \div 3 = \underline{\hspace{2cm}}$$

2. There are 15 counters. The counters are in 5 equal rows.
How many counters are in each row?

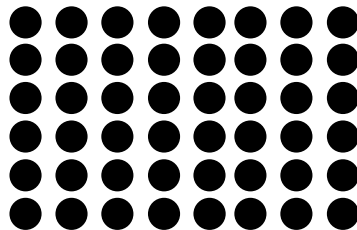
5 rows of _____

$$15 \div 5 = \underline{\hspace{2cm}}$$

Lesson
4.2
Reteach

A **fact family** is a group of related facts that uses the same numbers.

Example


Multiplication

6 rows of 8 counters

$$6 \times 8 = 48$$

48 counters

Division

48 counters in 6 equal rows

$$48 \div 6 = 8$$

8 counters in each row

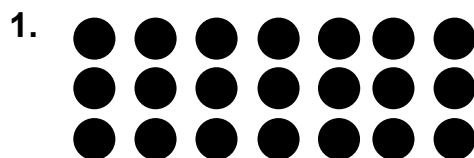
Fact family for 6, 8, and 48:

$$6 \times 8 = 48$$

$$48 \div 6 = 8$$

$$8 \times 6 = 48$$

$$48 \div 8 = 6$$



Use the array to complete the equations.

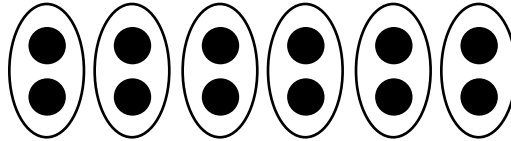
$$3 \times 7 = \underline{\quad\quad} \qquad 21 \div 3 = \underline{\quad\quad}$$

Write the other 2 facts in the fact family.

Lesson
4.3
Reteach

Example Write the related multiplication fact. Then find the quotient.

Find $12 \div 2$.



Think:
Related facts.

There are 12 counters. The counters are in groups of 2.

2	×	6	=	12	
counters per group		number of groups		number in all	

$$12 \div 2 = 6$$



Write the related multiplication fact. Then find the quotient.

1. Find $40 \div 10$.

$$10 \times \underline{\quad} = 40$$

$$40 \div 10 = \underline{\quad}$$

2. Find $20 \div 2$.

$$2 \times \underline{\quad} = 20$$

$$20 \div 2 = \underline{\quad}$$

3. Find $15 \div 5$.

$$5 \times \underline{\quad} = 15$$

$$15 \div 5 = \underline{\quad}$$

4. Find $28 \div 2$.

$$2 \times \underline{\quad} = 28$$

$$28 \div 2 = \underline{\quad}$$

5. Find $35 \div 5$.

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

$$35 \div 5 = \underline{\quad}$$

6. Find $60 \div 10$.

$$10 \times \underline{\quad} = 60$$

$$60 \div 10 = \underline{\quad}$$

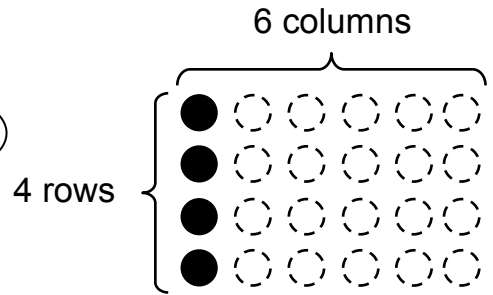
Lesson
4.4

Reteach

Example Find $24 \div 4$.



Think: 4 times what number is 24?
 $4 \times 6 = 24$

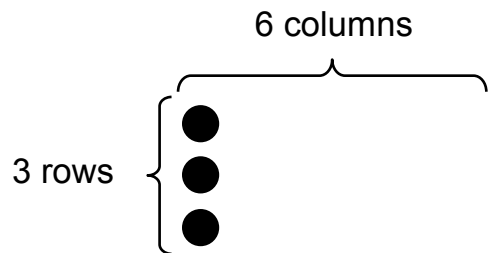


$$24 \div 4 = 6 \text{ or } 4 \overline{)24}^6$$

Example Find $12 \div 3$.



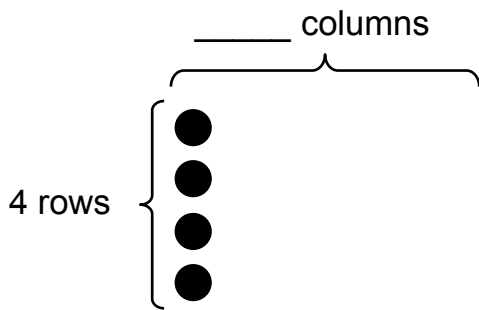
Think: 3 times what number is 12?
 $3 \times 4 = 12$



$$12 \div 3 = 4 \text{ or } 3 \overline{)12}^4$$

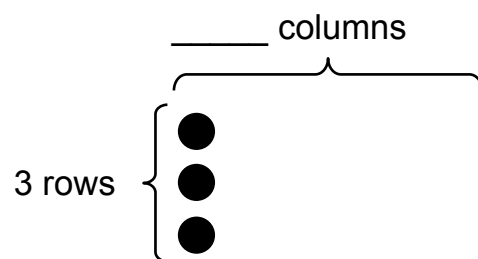
Complete the model and find the quotient.

1. Find $36 \div 4$.



$$36 \div 4 = \underline{\quad}$$

2. Find $15 \div 3$.



$$15 \div 3 = \underline{\quad}$$

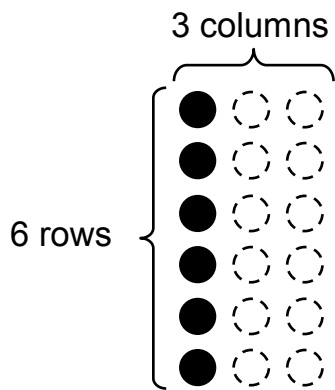
Lesson
4.5

Reteach

Example Find $18 \div 6$.

Think: 6 times what number is 18?

$$6 \times 3 = 18$$

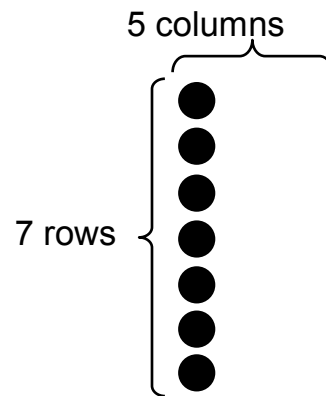


$$18 \div 6 = 3 \text{ or } 6 \overline{)18}^3$$

Example Find $35 \div 7$.

Think: 7 times what number is 35?

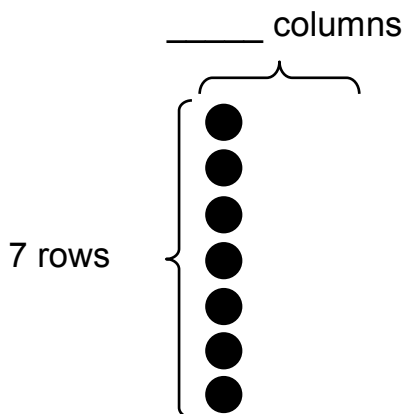
$$7 \times 5 = 35$$



$$35 \div 7 = 5 \text{ or } 7 \overline{)35}^5$$

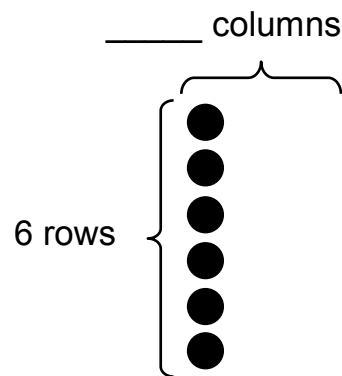
Complete the model and find the quotient.

1. Find $56 \div 7$.



$$56 \div 7 = \underline{\hspace{2cm}}$$

2. Find $24 \div 6$.



$$24 \div 6 = \underline{\hspace{2cm}}$$

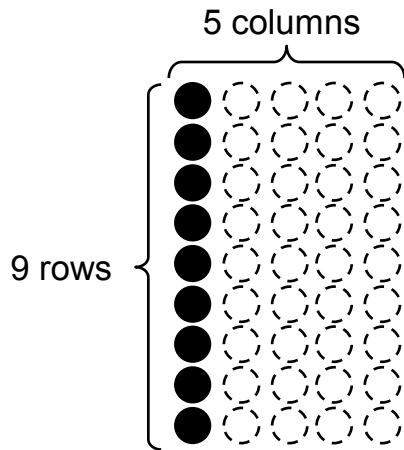
Lesson
4.6

Reteach

Example Find $45 \div 9$.

Think: 9 times what number is 45?

$$9 \times 5 = 45$$

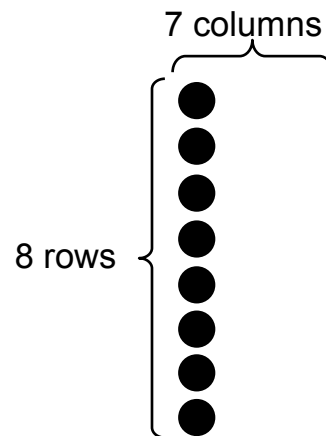


$$45 \div 9 = 5 \text{ or } 9 \overline{)45}^5$$

Example Find $56 \div 8$.

Think: 8 times what number is 56?

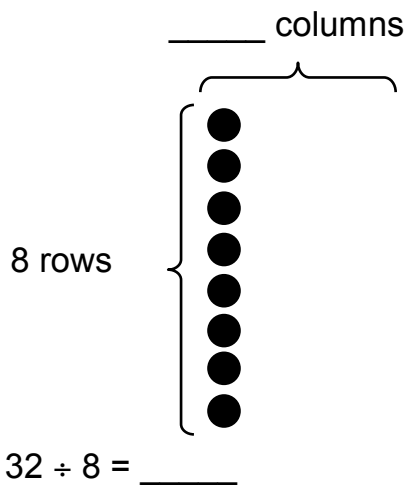
$$8 \times 7 = 56$$



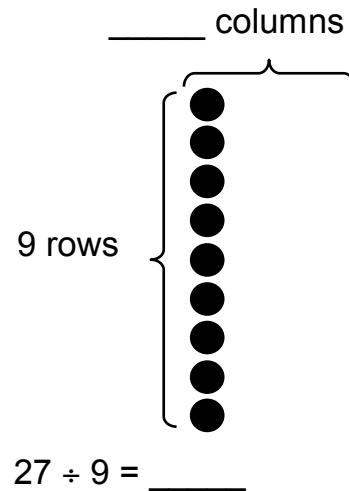
$$56 \div 8 = 7 \text{ or } 8 \overline{)56}^7$$

Complete the model and find the quotient.

1. Find $32 \div 8$.



2. Find $27 \div 9$.



Lesson
4.7
Reteach

- 0 divided by any number (except 0) is 0.
- Any number (except 0) divided by itself is 1.
- You cannot divide by 0.
- Any number divided by 1 is itself.

Example Find $2 \div 1$.

Think: 1 times
what number is 2?

$1 \times \underline{\quad} = 2$

$1 \times 2 = 2$

Then: Find the
quotient.

$2 \div 1 = \underline{\quad}$

$2 \div 1 = 2$

Example Find $0 \div 2$.

Think: 2 times
what number is 0?

$2 \times \underline{\quad} = 0$

$2 \times 0 = 0$

Then: Find the
quotient.

$0 \div 2 = \underline{\quad}$

$0 \div 2 = 0$

Example Find $2 \div 2$.

Think: 2 times
what number is 2?

$2 \times \underline{\quad} = 2$

$2 \times 1 = 2$

Then: Find the
quotient.

$2 \div 2 = \underline{\quad}$

$2 \div 2 = 1$

Example Find $2 \div 0$.

Think: 0 times
what number is 2?

 There is no
such number.

 So, you cannot
divide by 0.

Write the related multiplication fact. Then find the quotient.

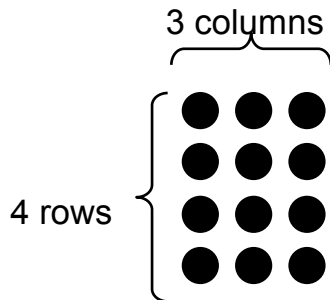
1. $6 \div 6 = \underline{\quad}$

2. $0 \div 5 = \underline{\quad}$

3. $9 \div 1 = \underline{\quad}$

4. $12 \div 12 = \underline{\quad}$

Lesson
4.8
Reteach
Example Find $12 \div 4$.

One way: Draw an array.


It takes 3 counters in each row to make 12.

So, $12 \div 4 = 3$.

Another way: Use a multiplication fact.

Think: 4 times what number is 12?

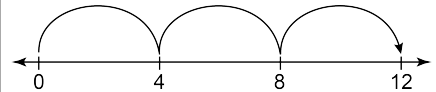
$$4 \times \underline{\quad} = 12$$

$$4 \times 3 = 12$$

So, $12 \div 4 = 3$.

Another way: Use a number line.

Start at 12. Count back by 4s until you reach 0.



Count the jumps. There are 3 jumps of 4.

So, $12 \div 4 = 3$.

Use any strategy to find the quotient.

1. $32 \div 4 = \underline{\quad}$

2. $63 \div 7 = \underline{\quad}$

Lesson
4.9
Reteach

You buy 5 boxes of pasta and a jar of pasta sauce. You spend \$27. The jar of pasta sauce costs \$7. Each box of pasta costs the same amount. How much is each box of pasta?

1. Understand the problem

What do you know?

Hint: Look for the numbers in the problem.

- You buy 5 boxes of pasta and 1 jar of pasta sauce.
- You spend a total of \$27.
- The jar of pasta sauce costs \$7.

What do you need to find?

Hint: Look for the question in the problem.

- You need to find out how much you spent on the boxes of pasta.
- Then you need to find how much each box of pasta costs.

2. Make a plan

How will you solve?

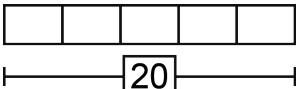
Hint: Follow the solving order in “What do you need to find?”

- Subtract 7 from 27 to find out how much you spent on the boxes of pasta.
- Then divide the total by 5 to find out how much each box of pasta costs.

3. Solve

- You spent $27 - 7 = \$20$ on the pasta.

Pick a division strategy.

- Model $20 \div 5$. 

- Use a multiplication fact.
Think: 5 times what number is 20?

$$5 \times 4 = 20$$

- Then find the quotient.
 $20 \div 5 = 4$

1. Newton buys 5 paint brushes and a baseball cap. He spends \$52. The baseball cap costs \$17. The 5 paint brushes all cost the same amount. How much is each paint brush?