

Learning Target: Divide a number by 11 or 12.**Success Criteria:**

- I can model dividing by 11 or 12.
- I can find the quotient of a number and 11 or 12.

**Explore and Grow**

Use repeated subtraction to find each quotient.

$$66 \div 11$$

$$48 \div 12$$

How many times did you subtract 11 from 66?



Reasoning Find $66 \div 11$ in another way.

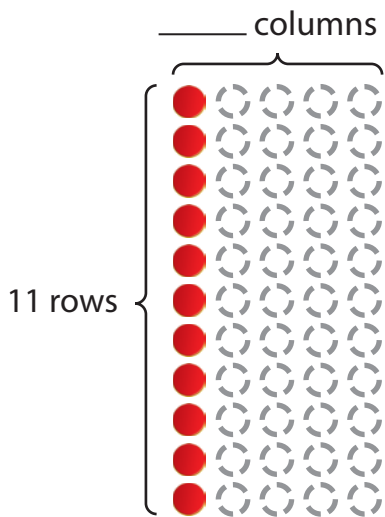


Think and Grow: Divide by 11 or 12

Example Find $55 \div 11$.

Think: 11 times what number is 55?

$$11 \times \underline{\quad} = 55$$

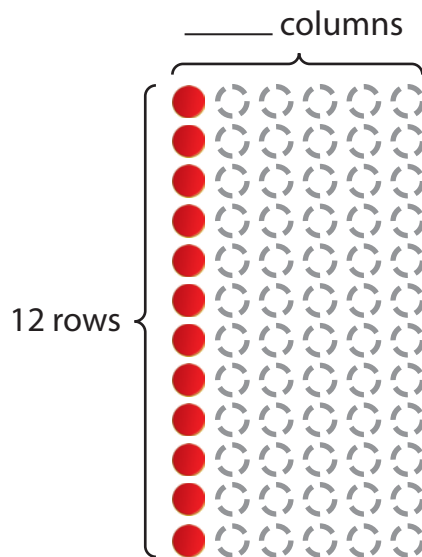


$$55 \div 11 = \underline{\quad} \text{ or } 11 \overline{)55}$$

Example Find $72 \div 12$.

Think: 12 times what number is 72?

$$12 \times \underline{\quad} = 72$$

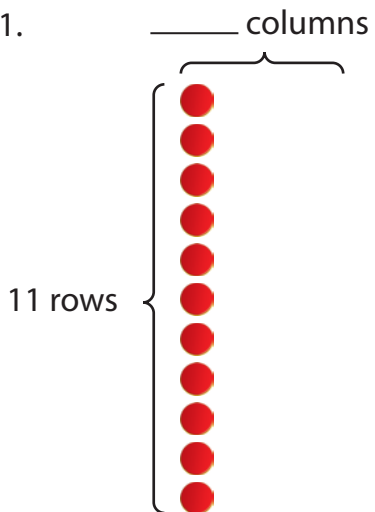


$$72 \div 12 = \underline{\quad} \text{ or } 12 \overline{)72}$$

Show and Grow

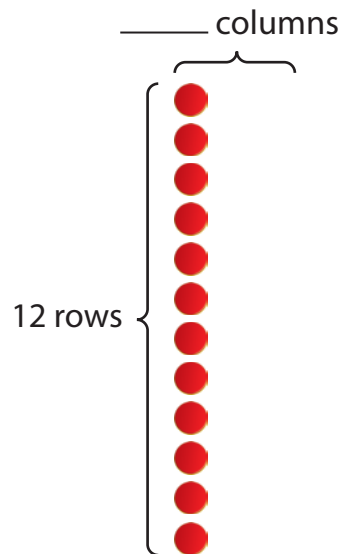
Complete the model and find the quotient.

1. Find $44 \div 11$.



$$44 \div 11 = \underline{\quad}$$

2. Find $36 \div 12$.



$$36 \div 12 = \underline{\quad}$$

Name _____



Apply and Grow: Practice

Find the quotient.

3. $33 \div 11 = \underline{\quad}$

4. $24 \div 12 = \underline{\quad}$

5. $60 \div 12 = \underline{\quad}$

6. $77 \div 11 = \underline{\quad}$

7. $84 \div 12 = \underline{\quad}$

8. $11 \div 11 = \underline{\quad}$

9.
$$\begin{array}{r} \square \\ 11 \overline{)88} \end{array}$$

10.
$$\begin{array}{r} \square \\ 12 \overline{)48} \end{array}$$

11.
$$\begin{array}{r} \square \\ 12 \overline{)132} \end{array}$$

Find the missing number.

12. $22 \div \underline{\quad} = 2$

13. $12 \div \underline{\quad} = 1$

14. $\underline{\quad} \div 11 = 5$

15. $\underline{\quad} \div 12 = 8$

16. $108 \div \underline{\quad} = 9$

17. $110 \div \underline{\quad} = 10$

18. Your friend makes 72 chocolate-covered strawberries. Each box holds 12 strawberries. How many boxes can he fill?



19. **Which One Doesn't Belong?** Which expression does *not* belong with the other three? Explain.

$100 \div 10$

$120 \div 12$

$120 \div 10$

$110 \div 11$

20. **DIG DEEPER!** Explain how you can use the Distributive Property to find $121 \div 11$.



Think and Grow: Modeling Real Life

Example An inflatable pool is 120 inches long.
How long is the pool in feet?

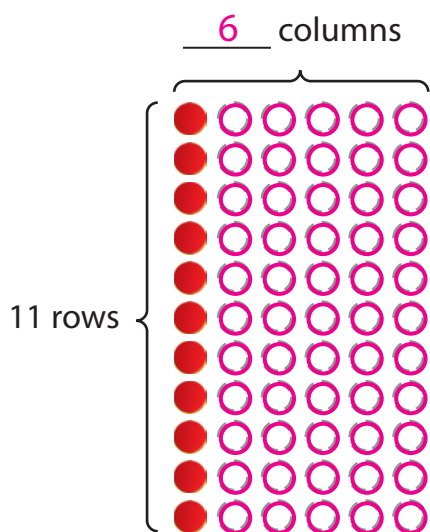
Division equation:



The pool is _____ feet long.

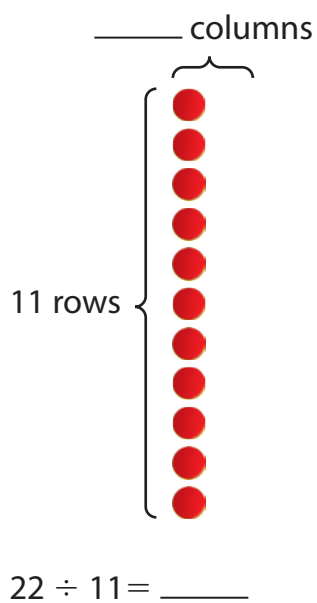
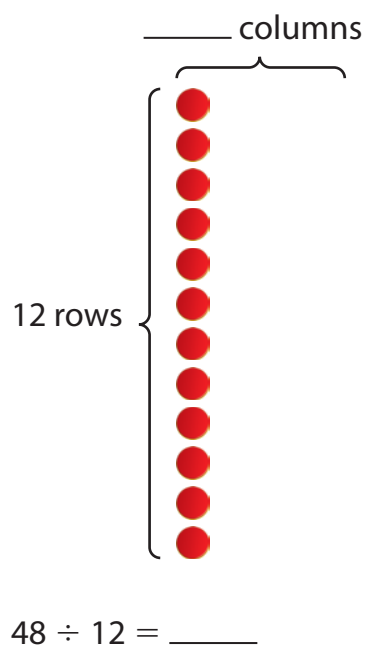
Show and Grow

- | | |
|--|--|
| <p>21. You need 84 golf balls for a game.
A box of golf balls has 12 balls.
How many boxes do you need?</p> | <p>22. A movie ticket costs \$7 and a bag of popcorn costs \$4. A group of friends pays \$77 for movie tickets and popcorn. Each person gets 1 ticket and 1 bag of popcorn. How many people are in the group?</p> |
|--|--|
-
- 23.** **DIG DEEPER!** A boat travels 132 miles between two ports in 12 hours.
How far did the boat travel in 6 hours?

Learning Target: Divide a number by 11 or 12.**Example** Find $66 \div 11$.

$$66 \div 11 = \underline{6} \quad \text{or} \quad 11 \overline{)66} \begin{array}{r} 6 \end{array}$$

Complete the model and find the quotient.

1. Find $22 \div 11$.**2.** Find $48 \div 12$.

Find the quotient.

3. $108 \div 12 = \underline{\hspace{2cm}}$

4. $88 \div 11 = \underline{\hspace{2cm}}$

5. $99 \div 11 = \underline{\hspace{2cm}}$

Find the quotient.

6. $\begin{array}{r} \square \\ 12 \overline{)84} \end{array}$

7. $\begin{array}{r} \square \\ 11 \overline{)132} \end{array}$

8. $\begin{array}{r} \square \\ 12 \overline{)144} \end{array}$

Find the missing number.

9. $24 \div \underline{\hspace{1cm}} = 2$

10. $\underline{\hspace{1cm}} \div 11 = 1$

11. $120 \div \underline{\hspace{1cm}} = 10$

12. **MP Number Sense** Write the fact family for the numbers 11, 12, and 132.

13. **MP Precision** Your friend is 60 inches tall. How tall is your friend in feet?

14. **Modeling Real Life** You use a muffin tin with 12 cups to bake 96 muffins. How many times do you fill the tin?



15. **DIG DEEPER!** A group of people pay \$110 to attend a carnival. The number of adults and children in the group is the same. How many adults and children are in the group? Explain.

Carnival Ticket Prices	
Adult	\$8
Child	\$3

Review & Refresh

Use properties to find the product. Explain your reasoning.

16. $4 \times 7 \times 25$

17. 6×250

18. 494×5