

# Solving Equations Involving Multiplication and Division

Wednesday



## Quick Review

Kasia buys 8 tickets for a lacrosse game.

Altogether the tickets cost \$96.

What is the cost of 1 ticket?

Let  $f$  represent the cost of 1 ticket.

Here are 2 equations we can write and solve.

➤  $f = 96 \div 8$

$96 \div 8 = 12$

So,  $f = 12$

➤  $96 = 8f$

$8 \times 12 = 96$

So,  $f = 12$

One ticket costs \$12.

## Try These

1. Solve each equation.

a)  $5p = 35$  \_\_\_\_\_

b)  $5p = 50$  \_\_\_\_\_

c)  $35 = 7m$  \_\_\_\_\_

d)  $48 = 6k$  \_\_\_\_\_

e)  $m = 24 \div 3$  \_\_\_\_\_

f)  $55 \div c = 11$  \_\_\_\_\_

g)  $h = 36 \div 6$  \_\_\_\_\_

h)  $28 \div d = 4$  \_\_\_\_\_

i)  $49 = 7m$  \_\_\_\_\_

j)  $b = 72 \div 9$  \_\_\_\_\_

2. Write an equation. Then solve.

Roger collected 6 baskets of delicious apples.

Each basket held 12 apples. How many apples did Roger collect?

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## Practice

1. Write an equation. Solve the equation to solve the problem.

- a) Ye-Li bought an album to display her 96 hockey cards. She put 8 cards on each page. How many pages did Ye-Li fill?

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- b) Katy sold 13 tickets for the harvest dance. Madhir sold twice as many tickets as Katy. How many tickets did Madhir sell?

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- c) It took Marcello 3 hours to walk 12 km. About how far did Marcello walk each hour?

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- d) It took a work crew 3 days to pave 24 km of highway. About how much of the highway did the crew pave each day?

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2. a) Write a story problem that could be solved by using this equation:  
 $m \div 6 = 5$ .

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- b) Solve the problem in part a.

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## Stretch Your Thinking

Write an equation. Write a story problem that can be solved by solving the equation.

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