

Relating Multiplication

Quick Review

There are 42 students who want to play hockey.

There are 6 players on a team.

How many teams can there be?

To find out, divide: 42 ÷ 6

Here are two ways to find $42 \div 6$:

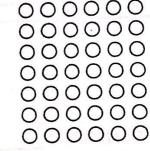
➤ Make an array of 42 counters with 6 counters in each row.

There are 7 rows.

So: $42 \div 6 = 7$

There can be 7 teams.

> You can think about multiplication to divide. Every division fact has a related multiplication fact.



Think:

6 times which number is 42? You know $6 \times 7 = 42$. So, $42 \div 6 = 7$

Try These 👙

- 1. Write a multiplication fact and a division fact for each array.
 - a) 😡 🛠 🛠 🛠 🛠
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 - **⊕⊕⊕⊕⊕⊕⊕**
- 2. Use a related multiplication fact to help you divide. Write the related fact.
 - a) $20 \div 4 =$ _____ b) $30 \div 5 =$ c) $14 \div 7 =$

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Divide. Draw a picture to show you	well and tolk of
v body	30 ÷ 5 =
24 ÷ 3 =	The first of the second of the
	** Make an early 122 counters with a coordinate with
18 ÷ 2 =	$5 \div 5 = \frac{1}{1} \cdot \frac{1}{1$

2. Use a related multiplication fact to divide.

a)
$$18 \div 6 =$$

b)
$$45 \div 5 =$$

a)
$$18 \div 6 =$$
 _____ b) $45 \div 5 =$ ____ c) $56 \div 7 =$ ____ d) $35 \div 5 =$

d)
$$35 \div 5 =$$

e)
$$24 \div 4 =$$
 f) $27 \div 3 =$ g) $12 \div 2 =$ h) $9 \div 1 =$

$$q) 12 \div 2 =$$

h)
$$9 \div 1 = ____$$

3. Write a division fact to solve each question.

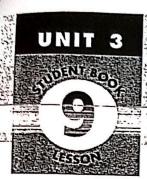
a) 24 children 6 children on a team How many teams?

b) 18 cookies 9 cookies on a plate How many plates?

c) 42 cans 7 cans in each row How many rows?

Stretch Your Thinking

Find all the ways of dividing 36 students into equal teams. Write a division fact to show each way.



Dividing by Numbers

Quick Review

Here's how to divide by 8 and 9.

$$8 \times \square = 48$$

$$8 \times 6 = 48$$

So,
$$48 \div 8 = 6$$

Also,
$$48 \div 6 = 8$$

$$9 \times \square = 63$$

$$9 \times 7 = 63$$

So,
$$63 \div 9 = 7$$

Also,
$$63 \div 7 = 9$$

Think multiplication.

Think multiplication.

Related Facts

$$48 \div 8 = 6$$

$$48 \div 6 = 8$$

$$6 \times 8 = 48$$

$$8 \times 6 = 48$$

Related Facts

$$63 \div 9 = 7$$

$$63 \div 7 = 9$$

$$7 \times 9 = 63$$

$$9 \times 7 = 63$$

Try These

2 Divide.

1. Write two multiplication facts and two division facts for each array.

d) There are 54 students in the band. They march in 6 equal row

a)
$$27 \div 9 =$$
 b) $16 \div 8 =$ 0000

c)
$$45 \div 9 =$$
 ____ d) $64 \div 8 =$ ___

e)
$$36 \div 9 =$$
 f) $32 \div 8 =$

f)
$$32 \div 8 =$$

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1.	Find the product. Then write a related multiplication fact and two related
	division facts.

a)
$$3 \times 9 =$$
 _____ b) $8 \times 5 =$ _____

b)
$$8 \times 5 =$$

c)
$$9 \times 7 =$$

2. Divide.

a)
$$49 \div 7 =$$
 b) $81 \div 9 =$ _

b)
$$81 \div 9 =$$

c)
$$45 \div 5 =$$

d)
$$27 \div 3 =$$
 e) $56 \div 8 =$ **____**

e)
$$56 \div 8 =$$

f)
$$36 \div 6 =$$

- 3. Write a division sentence to show each answer.
 - a) There are 28 days in February. How many weeks is that?
 - b) There are 3 tennis balls in a carton. How many cartons are needed for 27 balls?
 - c) There are 54 students in the band. They march in 6 equal rows. How many students are in each row?
 - d) There are 9 kiwi fruit in a small basket. A box contains 72 kiwi fruit in a single layer. How many small baskets of kiwi fruit can be filled?

Stretch Your Thinking

Complete this division sentence in as many ways as you can. $\square \div \square = 8$