

## Arithmetic

Before you begin, practise your times tables on Time Tables Rockstars for 20 minutes.

# Solving Word Problems

Lesson  
14

## In Focus



How many coins does  have?

If person A has 8 coins and person B has twice as many, how many coins does person B with the bag have?

Show me two different ways to answer this problem.

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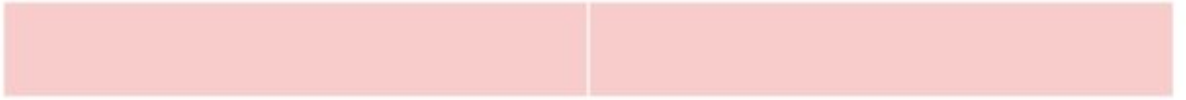
What does 'twice as many' mean?

If 1 pupil has 8 coins, then the other pupil must have 2 lots of 8 ( $2 \times 8$ ). This is what 'twice as many' means - when you have two lots of something.

So how many coins does the girl have? \_\_\_\_\_

## Let's Learn

1



Method 1           $8 + 8 = 16$

Method 2           $2 \times 8 = 16$




has 16 coins.

This bar model shows us that the girl has 'twice as many' coins, as her bar is twice as big as the boy's bar.


2

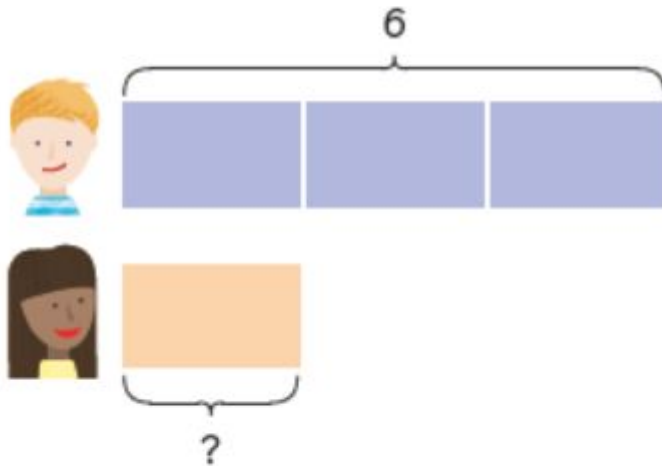


I have some .


I have 6 .



I have three times as many  as she has.



$$6 \div 3 = 2$$

 has two  coins.

1 bar is used to represent how many coins the girl has. Because the boy has 3 times as many coins as the girl. We use 3 bars to represent how many coins he has.

How many coins would the 3 bars represent?

How do we know?

If the 3 bars represent 6 coins, how many coins would 1 bar represent?

$$6 \div 3 = 2$$

How many bars does the girl have? 1 bar

How many coins does she have? 2 coins.

## Guided Practice

1 There are 4 times as many biscuits in



in



There are 32 biscuits in



as there are

Large 

|    |  |  |  |
|----|--|--|--|
| 32 |  |  |  |
|    |  |  |  |

Small 

|  |
|--|
|  |
|--|

How many biscuits are there in ?

$$32 \div 4 = 8$$

There are 8 biscuits in there

2

I have 8 sweets.



Ravi

I have twice as many sweets as Ravi.



Holly

Ravi has twice as many sweets as I have.



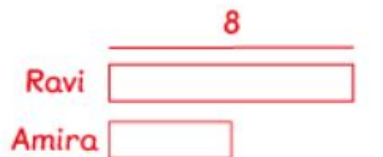
Amira

How many sweets does each child have?



$$8 \times 2 = 16$$

Holly has 16 sweets



$$8 \div 2 = 4$$

Amira has 4 sweets

3 There are 5 times as many boys as there are girls at a camp.

There are 8 girls at the camp.

How many children are there at the camp?



$$8 \times 5 = 40$$

$$40 + 8 = 48$$

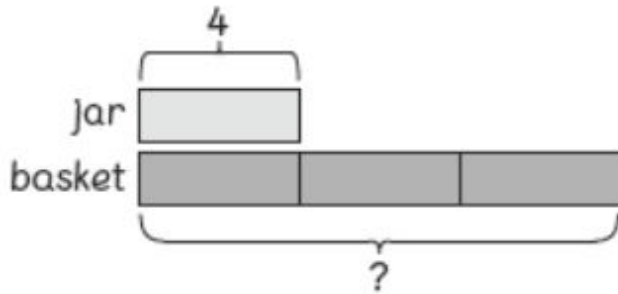
There are 48 children at the camp

# Worksheet 14

## Solving Word Problems

Solve.

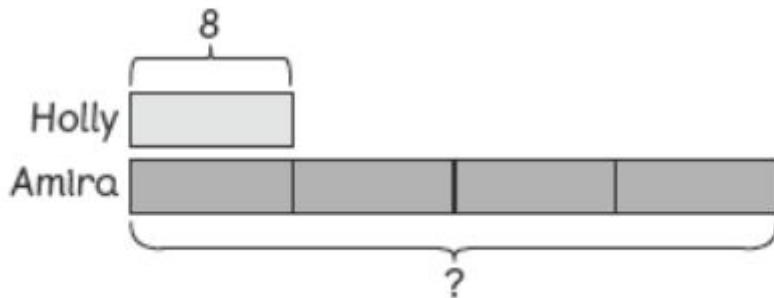
- 1** There are 4 cookies in a jar.  
There are 3 times as many cookies in a basket as in the jar.  
How many cookies are there in the basket?



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

There are          cookies in the basket.

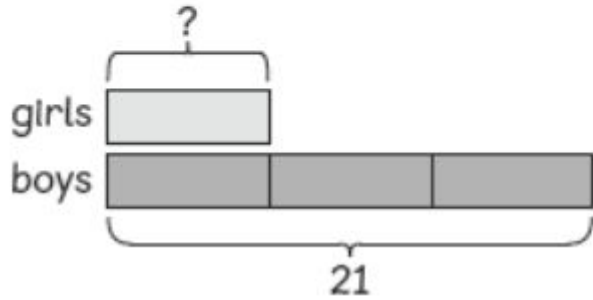
- 2** Holly has 8 pens. Amira has 4 times as many pens as Holly.  
How many pens does Amira have?



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

Amira has          pens.

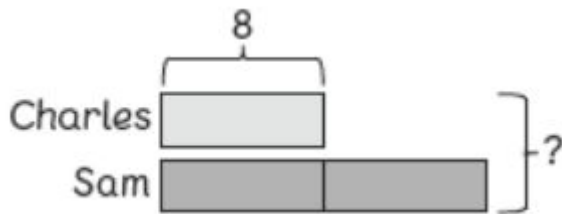
- 3** There are 21 boys in a class.  
 There are 3 times as many boys as girls in the class.  
 How many girls are there in the class?



\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

There are \_\_\_\_\_ girls in the class.

- 4** Charles has 8 stamps.  
 Sam has twice as many stamps as Charles.  
 How many stamps do both the boys have altogether?



\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

The boys have \_\_\_\_\_ stamps altogether.