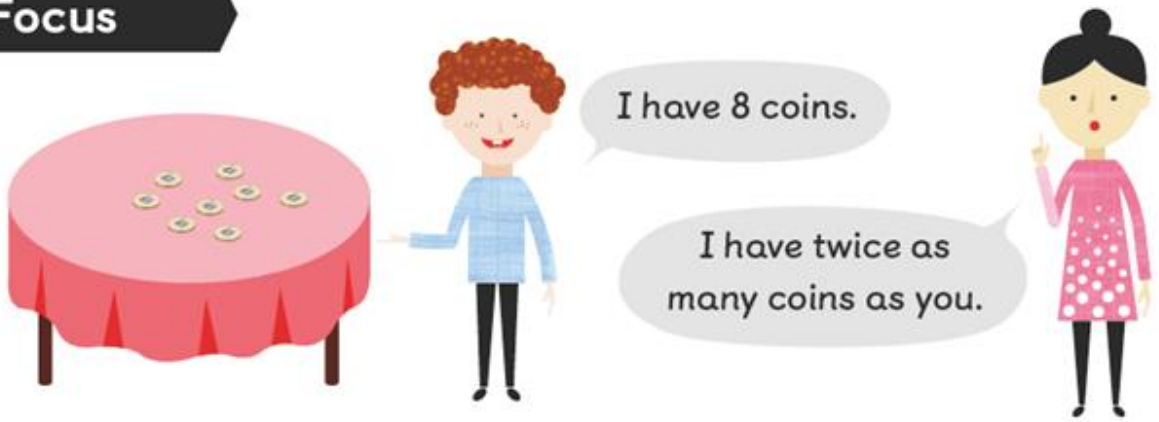
Solving Word Problems

Lesson 14

In Focus



How many coins does  have?

What calculation can you do to work out how many coins Ruby has?

Can you draw a bar model to represent the problem?

Let's Learn

1

Method 1 $8 + 8 = 16$

Method 2 $2 \times 8 = 16$

As Ruby has twice as many, we know we need to double the amount of coins Elliot has.

We already know Elliot has 8 coins.

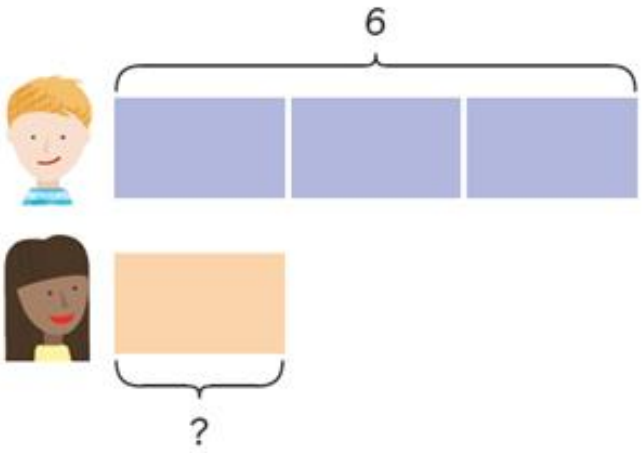
has 16 coins.

2

I have some £2.

I have 6 £2.

I have three times as many £2 as she has.



$6 \div 3 = 2$

has two £2 coins.

We don't know how many coins Lulu has, but we do know that Sam has 6 coins.

We also know that Sam has 3 times as many coins as Lulu. That must mean we need to do the calculation: $6 \div 3 = 2$.

Now, have a go at the guided practice. First try to draw a bar model to represent the problem. Then have a think about what calculation you need to do. Do you need to multiply or divide?

Guided Practice

1 There are 4 times as many biscuits in 

as there are in 

.

There are 32 biscuits in 

.

How many biscuits are there in 

?

2

Ravi

Holly

Amira

How many sweets does each child have?

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?

Complete Worksheet **14** • Page **107 – 108**

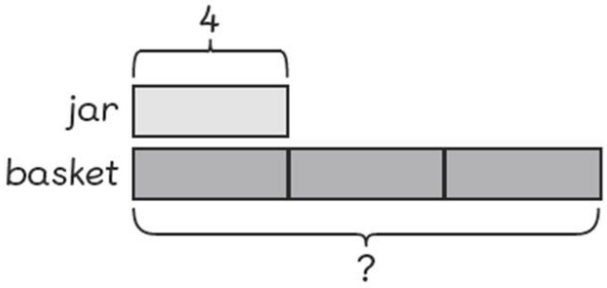
Name: _____ Class: _____ Date: _____

Worksheet 14

Solving Word Problems

Solve.

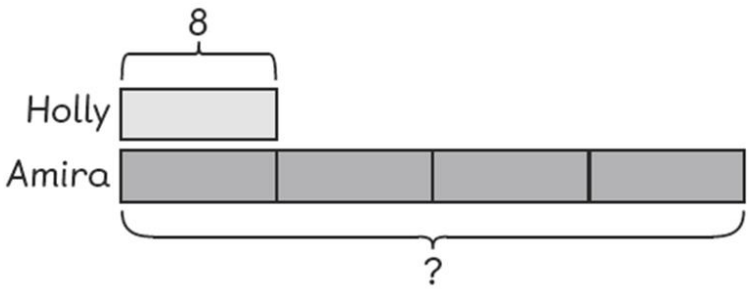
1 There are 4 cookies in a jar.
There are 3 times as many cookies in a basket as in the jar.
How many cookies are there in the basket?

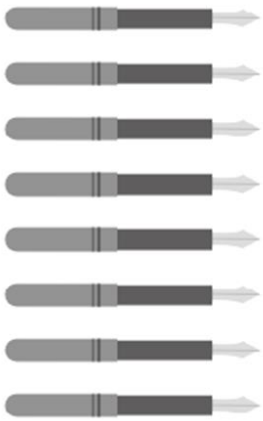


[ ] × [ ] = [ ]

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?

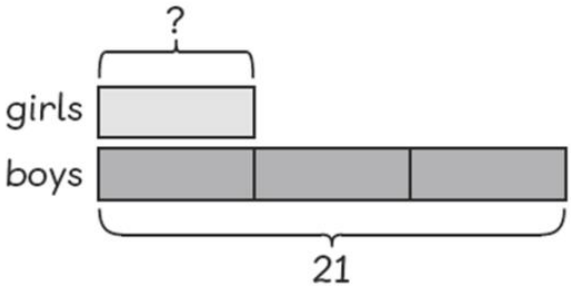




[ ] × [ ] = [ ]

Amira has [ ] pens.

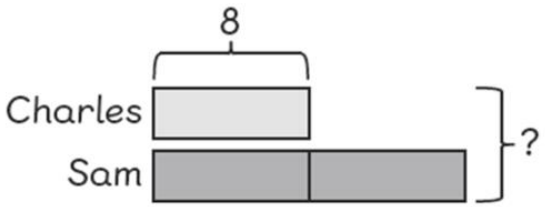
3 There are 21 boys in a class.
There are 3 times as many boys as girls in the class.
How many girls are there in the class?



$\square \div \square = \square$

There are $\square$ 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?



$\square \times \square = \square$

The boys have $\square$ stamps altogether.

JOURNAL CH3 L14 DATE:

TITLE: Can you solve word problems using a bar model?

Jenny has eight tennis balls; Georgia has 6 times as many tennis balls as Jenny. How many tennis balls are there altogether? Use a bar model to represent this problem and help you solve it.

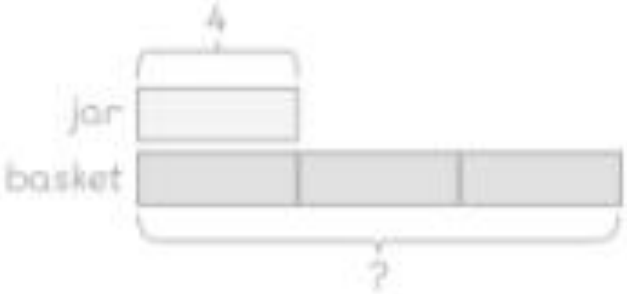
Name: _____ Class: _____ Date: _____

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?



3	×	4	=	12

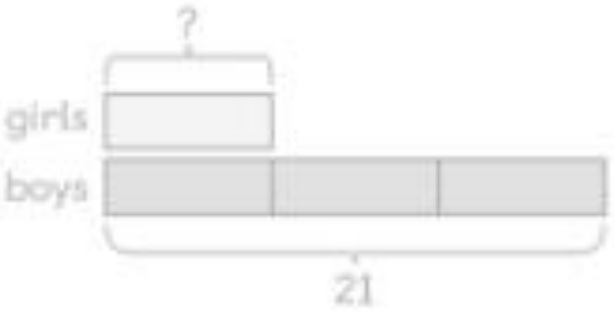
There are 12 cookies in the basket.

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

4	×	8	=	32

Amira has 32 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?



21	÷	3	=	7

There are 7 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?

24	×	3	=	8

The boys have 24 stamps altogether.