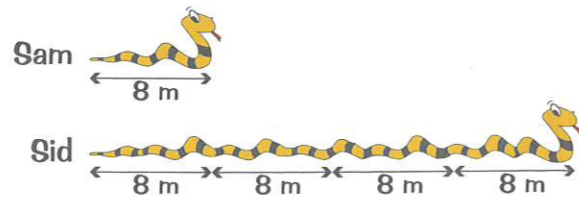


Solving Calculation Problems

Work Out What Calculation You Need to Do

EXAMPLE: Sid is four times as long as Sam. Sam is eight metres long. How long is Sid?

You need to work out what **4 lots of 8** are. This is **multiplication**.



$4 \times 8 = 32$ So Sid is **32 metres** long.

EXAMPLES: What are the missing numbers below?

$\square + 8 = 29$

Adding is the **inverse** of subtracting, so you could write this question as:
 $29 - 8 = ?$

So the missing number must be **21**.

$\square \div 8 = 6$

Dividing is the **inverse** of multiplying, so you could write this question as:
 $6 \times 8 = ?$

If you look at your **8 times table**,
 $6 \times 8 = 48$.
So the missing number must be **48**.

Pictures Can Help Solve Problems

EXAMPLE:

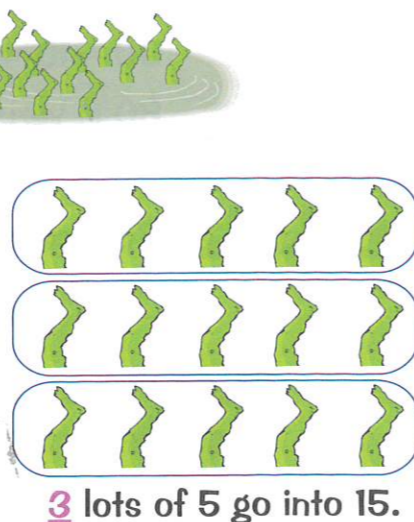
Swamp monsters have **5 legs** each. Jim can see **15 legs** sticking out of the swamp. How many swamp monsters are there?

You need to work out how many 5s go into 15. It's a **division**:

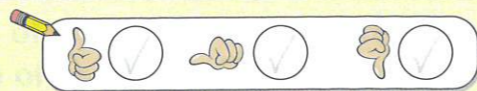
$15 \div 5 = 3$

There are **3 swamp monsters**.

You can check with a **picture**.



"I can solve problems by choosing the calculations I should do."



Solving Calculation Problems

Some Problems Need More Than One Step

EXAMPLE: Mrs Smith needs **64 party hats**. Party hats are sold in packs of **8** and each pack costs **£4**. How much does Mrs Smith **spend**?

You need to do more than one calculation to solve this problem.

1 First, work out **how many packs** of hats Mrs Smith needs to buy.

The number of hats in a pack.

$64 \div 8 = 8$

The number of hats she needs.

So Mrs Smith has to buy **8 packs** of hats.

You can **check** your answer:
 $8 \text{ packs} \times 8 \text{ hats} = 64 \text{ hats in total.}$

2 Then find out **how much** money she spends.

The number of packs she needs.

$8 \times 4 = 32$

The price of one pack.

So Mrs Smith spends **£32** in total.

EXAMPLE: Ellie and her two brothers have £15 to share equally between them. Ellie buys a book for £3. How much money does she have left?

£15 **shared** between three people is

First, work out **how much** money Ellie **started** with.

$15 \div 3 = 5$

So Ellie and her brothers have **£5 each**.

Then **take away** what she spent on the book.

$5 - 3 = 2$

So she has **£2** left.

"I can solve problems by choosing the calculations I should do."

