

# Key stage 1

## Mathematics

### Paper 2: reasoning

First name	
Middle name	
Last name	

# SAMPLE BOOKLET

Published July 2015

This sample test indicates how the national curriculum will be assessed from 2016.  
Further information is available on GOV.UK at [www.gov.uk/sta](http://www.gov.uk/sta).

Total marks



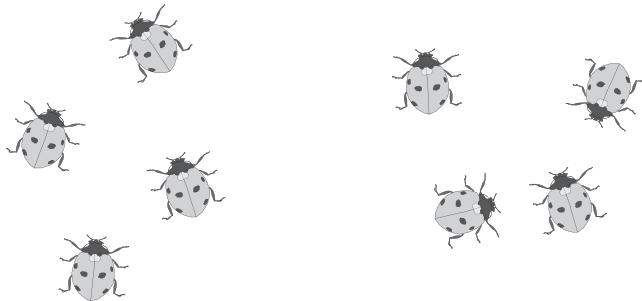
**Amy**



**Abdul**

Sam      Ben      Sita

## Practice question



ladybirds

1



2

tens



3



2 cm

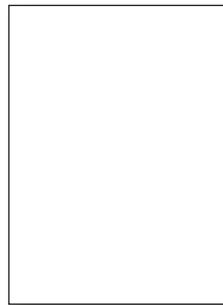
2 kg

2 °C

2 l



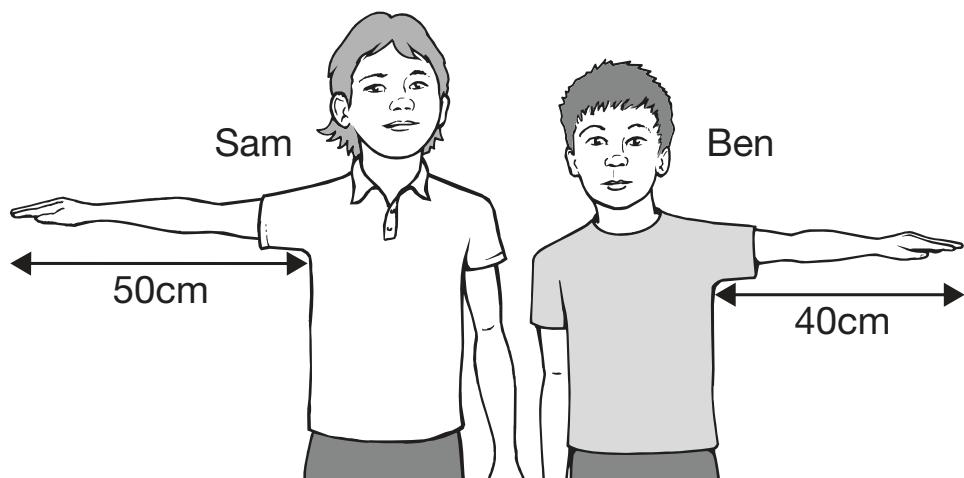
4



pieces of paper



5



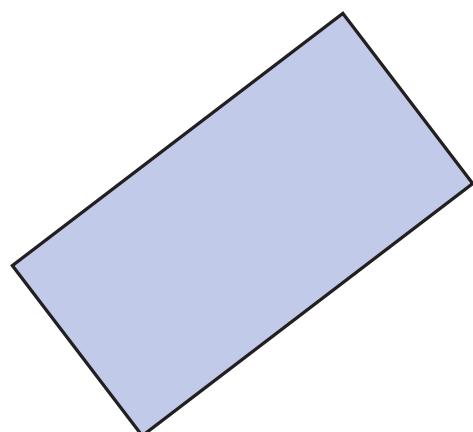
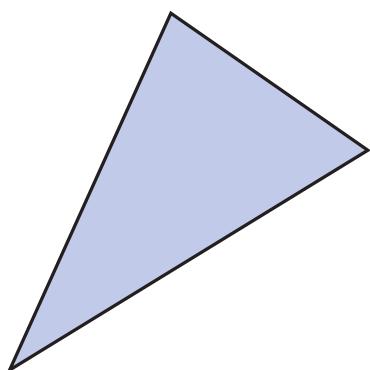
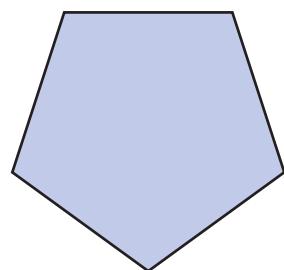
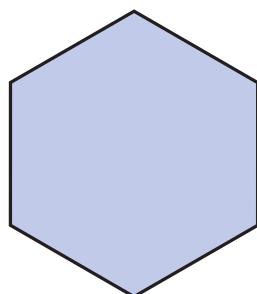
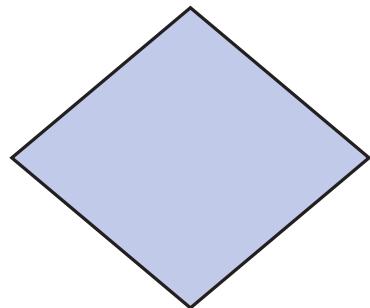
cm



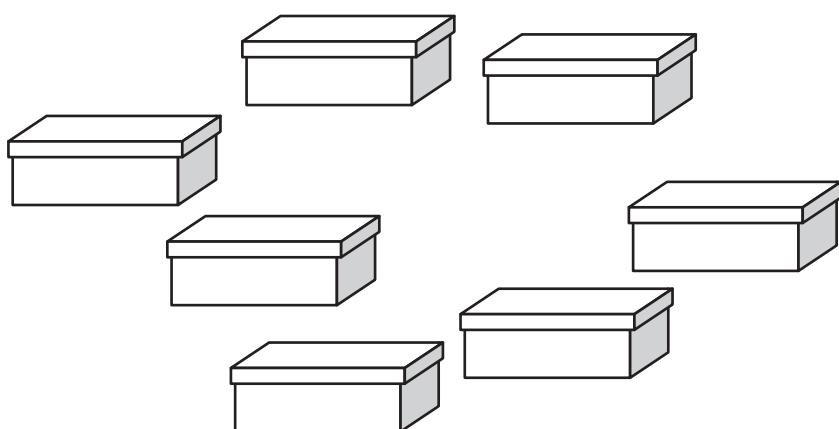
**6**

Look at the shapes.

Tick (✓) the hexagon.



7



Sita puts **2** shoes in each of these boxes.

How many shoes are there altogether?

shoes

8

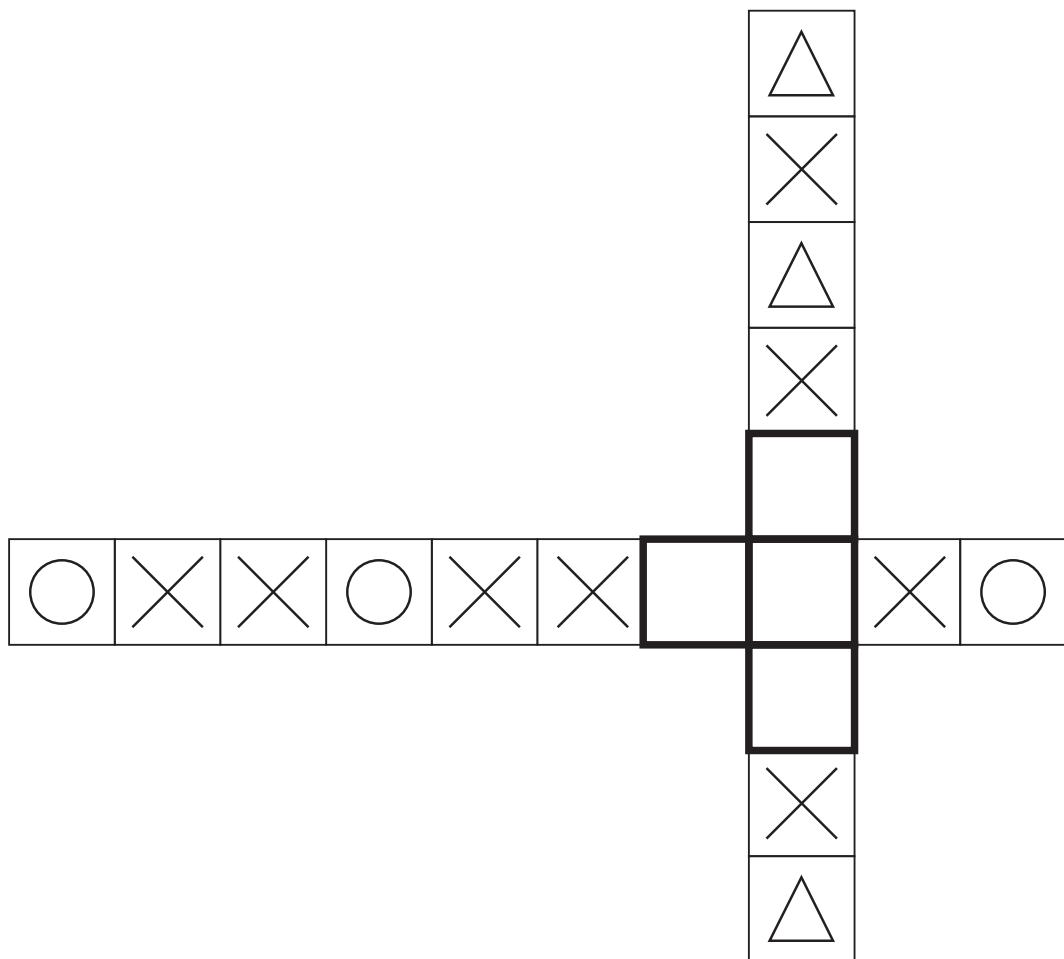
Complete the table.

words	digits
thirty-eight	38
	40
ninety-four	

9

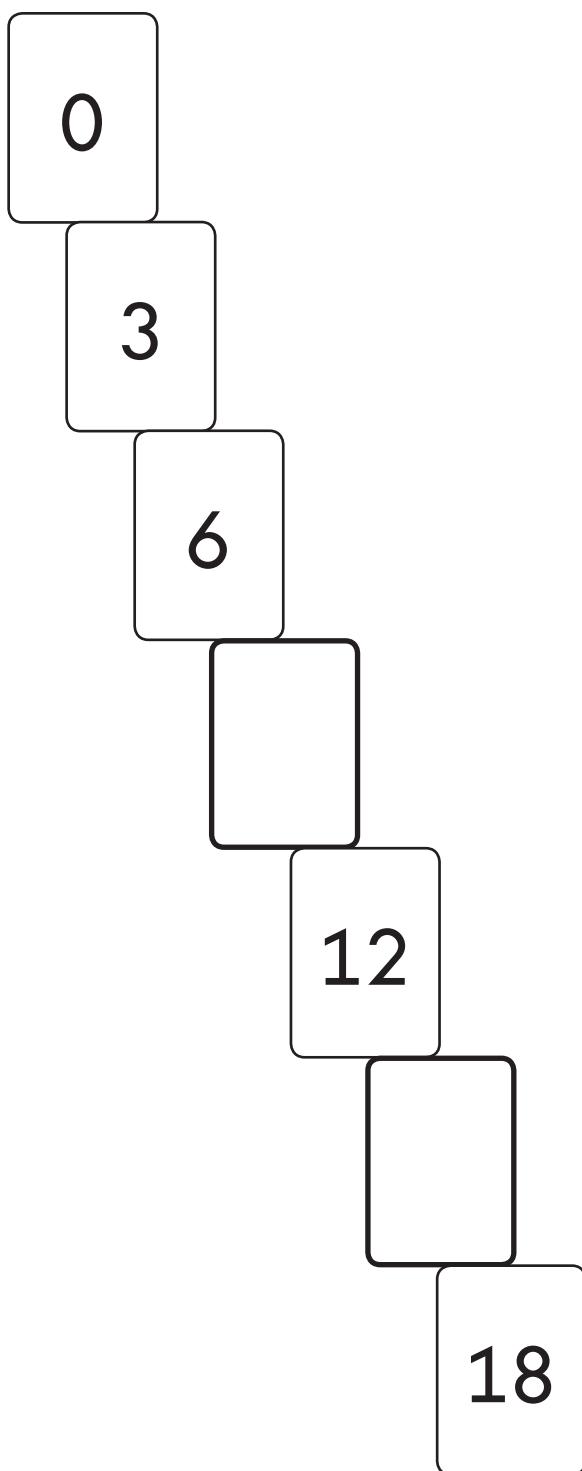
Here are two shape patterns.

Draw a shape in each empty box to make the patterns correct.



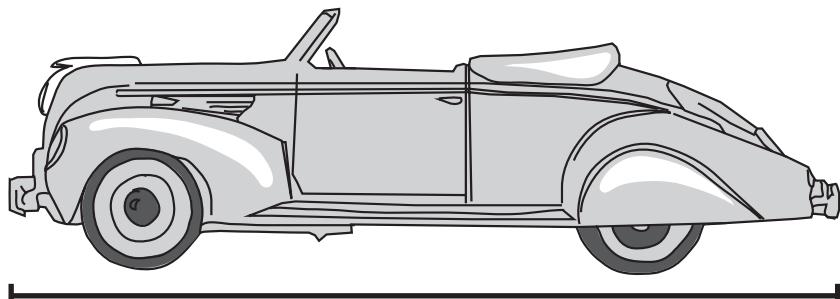
10

Write the **two** missing numbers in this pattern.



11

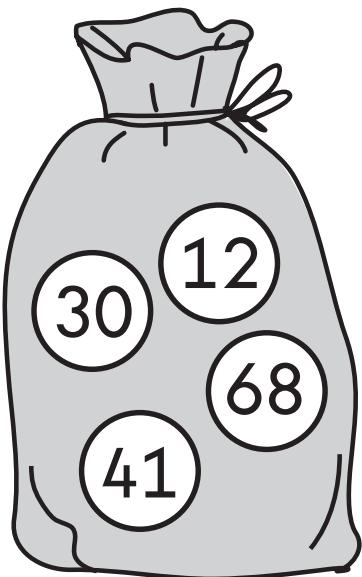
Use a ruler to measure the length of the toy car.

 cm

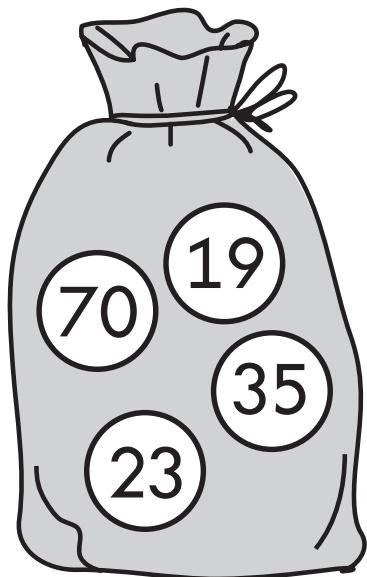
12

**Two** of the numbers are in the **wrong** bag.

Draw a cross ( $\times$ ) on each of them.



**even** numbers

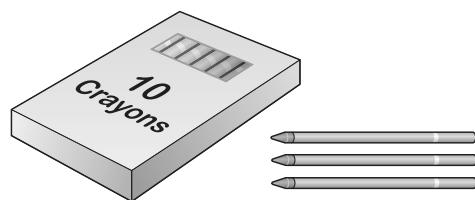


**odd** numbers



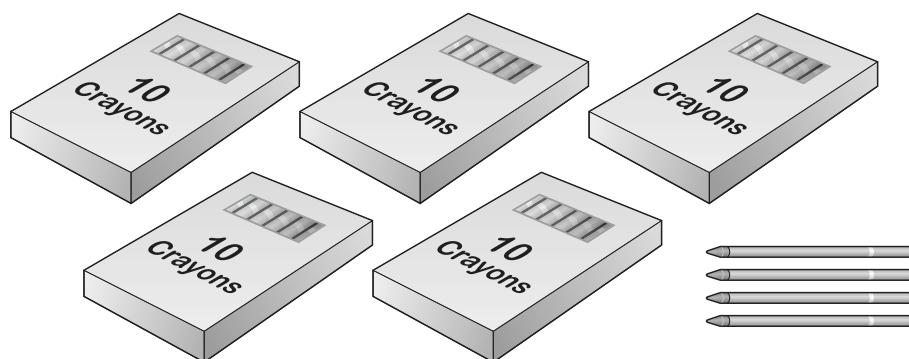
13

Ben has 13 crayons.



Here are Abdul's crayons.

How many crayons does Abdul have?



crayons

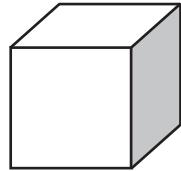
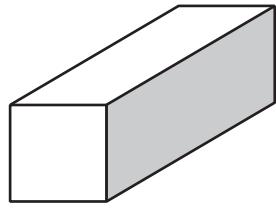
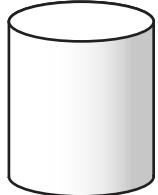
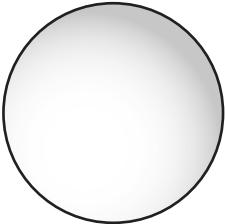
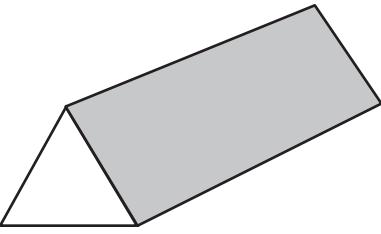


M004175

14

**One** shape is in the **wrong** place on the sorting grid.

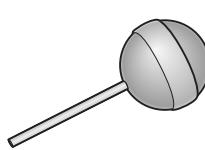
Draw a cross (*X*) on it.

Shapes <b>with</b> a square face	Shapes <b>without</b> a square face
  	 



15

A shop sells these sweets.



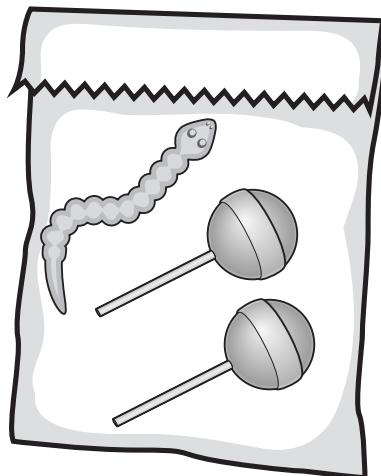
2p

5p

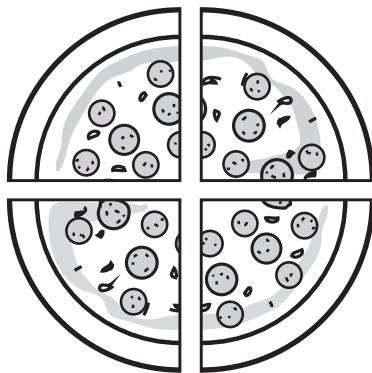
10p

Abdul spends exactly **20p** on sweets.

Tick (✓) the bag of sweets he buys.



16



Sita cuts a pizza into four equal slices.

She eats one slice.

What fraction of the pizza does she eat?

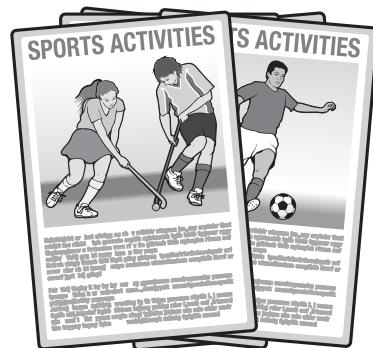
17

Sam is collecting cards.

He wants to collect **100** cards altogether.

Last week he collected **50** cards.

This week he collects **30** cards.

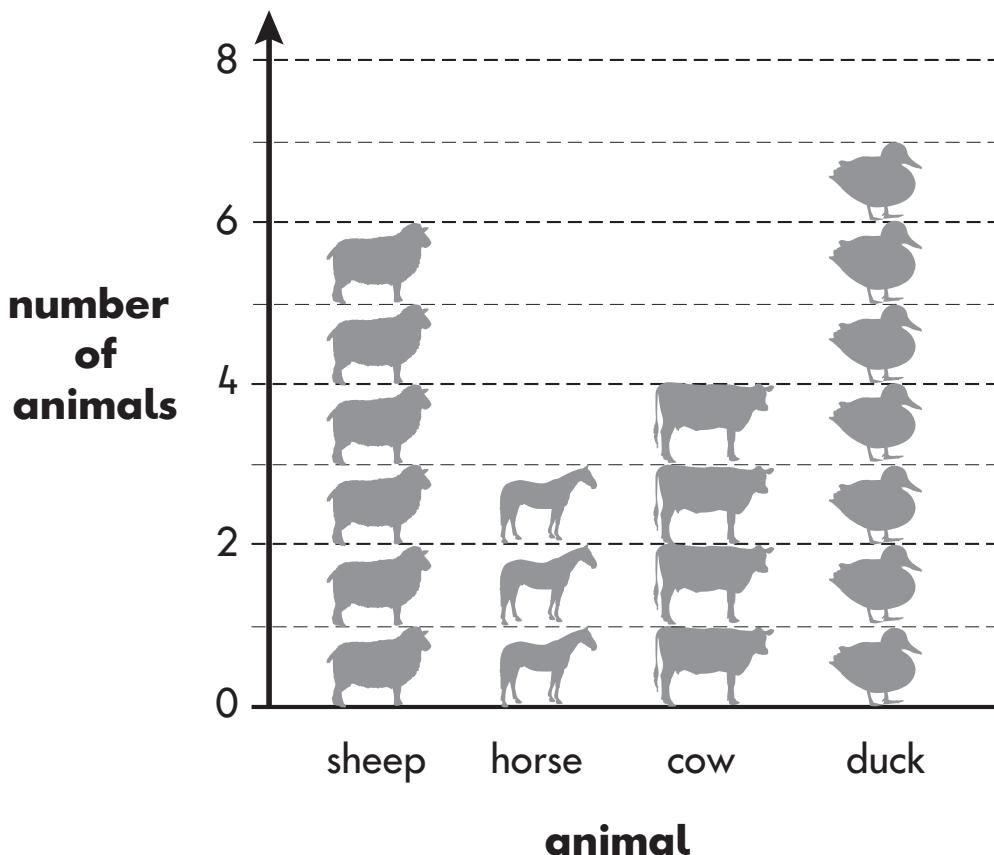


How many **more** cards does he need?

cards

**18**

This diagram shows the number of animals at a farm.



(a) How many sheep and cows are there altogether?

(animals)

(b) There are more ducks than horses. How many more?

19

Amy buys an ice-cream for 90p.



(a) Tick (✓) **three** coins to show how Amy can make **90p**.

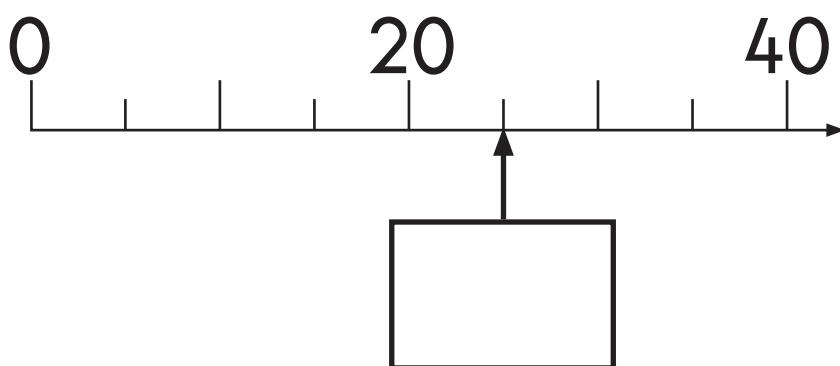


(b) Tick (✓) **four** coins to show another way to make **90p**.

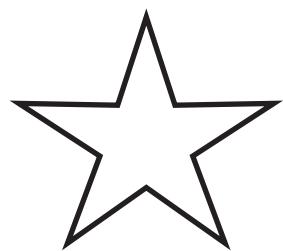
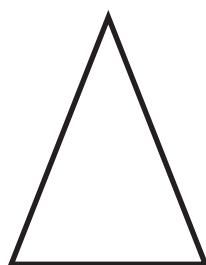


**20** Look at the number line.

Write the correct number in the box.



**21** Draw a line of symmetry on each of these shapes.

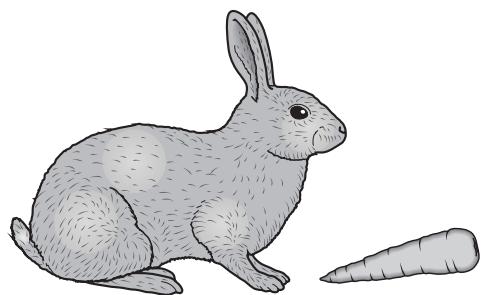


**22**

Amy plants **4** rows of carrots.

There are **3** carrots in each row.

A rabbit eats **2** of the carrots.



How many carrots are left?

Show  
your  
working

carrots



2 marks

23

Amy writes an answer to the calculation below.

$$57 - 31 = \boxed{26}$$

Now write an addition **to check Amy's answer.**

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



24

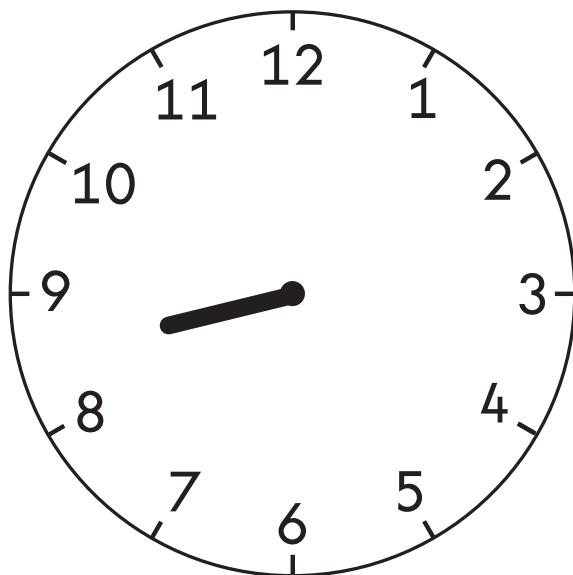
Write a digit in each box to make the sum correct.

$$\begin{array}{|c|c|} \hline 7 & \boxed{\phantom{0}} \\ \hline \end{array} + \boxed{\phantom{0}} = \begin{array}{|c|c|} \hline 8 & 3 \\ \hline \end{array}$$



25

Draw the minute hand on the clock to show  
**twenty-five past eight.**



26

Amy makes **20** cakes.

She shares the cakes between **5** plates.

Tick the calculation that shows how many cakes are on each plate.



Tick **one**.

$20 + 5 = 25$

$20 - 5 = 15$

$20 \div 5 = 4$

$20 \times 5 = 100$



27

Sita has **50** raisins.

She gives **23** to Ben.

She gives **15** to Amy.



How many raisins does Sita have left?

Show  
your  
working

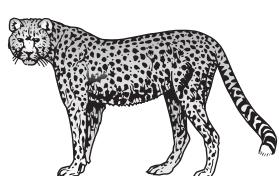
raisins



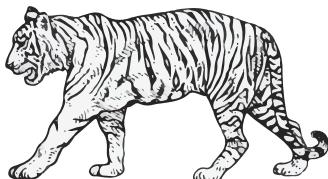
28

Abdul goes to the zoo.

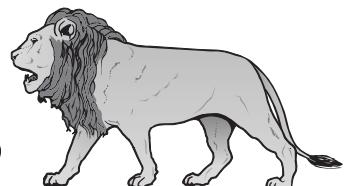
He finds out the mass of some animals.



Cheetah  
**58 kg**



Tiger  
**94 kg**



Lion  
**94 kg**

Compare the mass of the animals.

Write  $<$  or  $>$  or  $=$  in each box.

Cheetah's mass

Tiger's mass

Tiger's mass

Lion's mass



29

Do these calculations have the same answer?

Write **yes** or **no** next to each box.

One is done for you.

**yes or no?**

$8 + 2 \quad \text{and} \quad 2 + 8$

yes

$8 \times 2 \quad \text{and} \quad 2 \times 8$

\_\_\_\_\_

$8 - 2 \quad \text{and} \quad 2 - 8$

\_\_\_\_\_

$8 \div 2 \quad \text{and} \quad 2 \div 8$

\_\_\_\_\_



**30** Look at these fractions.

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{2}{4}$$

$$\frac{3}{4}$$

Circle the **two** fractions that are **equal**.



**31** Complete the number sentence below.

$$3 \times 8 = 2 \times \boxed{\phantom{00}}$$

**END OF TEST**

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Sample key stage 1 mathematics test Paper 2: reasoning

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