

1**Number grid**

Here is a number grid.

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

Two squares are shaded.

(a) What is the **total** of the numbers in the two shaded squares?

.....

1 mark

(b) Shade **two different squares** that have the **same total** as the answer to part (a).

1 mark

(c) What is the **total** of the numbers in **all four** shaded squares?

.....

1 mark

2

Drinks

A café sells small, medium and large drinks.

The table shows the number of drinks the café sold on one day.

	Coffee	Tea	Chocolate
Small	110	14	24
Medium	121	103	42
Large	90	64	58

(a) Altogether, how many **chocolate** drinks were sold?

Handwritten mark

.....

2 marks

(b) A **small tea** costs **50p**.

Altogether, how much was spent on small teas?

Handwritten mark

£

1 mark

3 True or false

Look at the number sentences below.

Tick (✓) ones that are correct and cross (✗) ones that are incorrect.

	✓ or ✗
$5 + 8 = 8 + 5$	
$5 - 8 = 8 - 5$	
$5 \times 8 = 8 \times 5$	
$5 \div 8 = 8 \div 5$	

2 marks

4 Missing numbers

Write the missing numbers in the boxes.

$79 + 85 = \square$

1 mark

$36 + \square = 90$

1 mark

5 Halfway

(a) What number is halfway between **-2** and **6**?

.....

1 mark

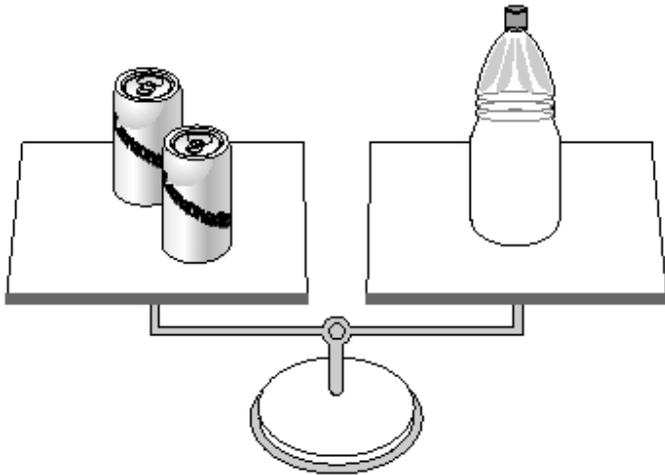
(b) Complete the sentence.

-10 is halfway between and **8**

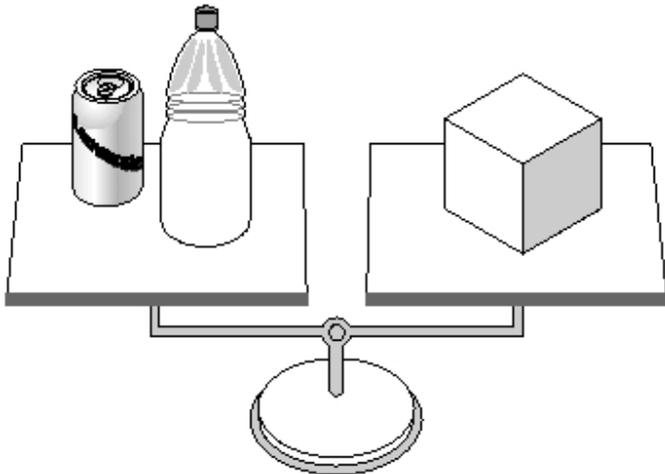
1 mark

6 **Balancing**

2 tins balance 1 bottle.



1 tin and 1 bottle balance 1 box.



(a) How many **bottles** do **6 tins** balance?

.....

1 mark

(b) How many **boxes** do **6 tins** balance?

.....

1 mark

7

UK population

In 2005, about 60.2 million people lived in the UK.

Look at the information about these people.

- 50.4 million lived in England.
- 5.1 million lived in Scotland.
- 3 million lived in Wales.
- The rest lived in Northern Ireland.

(a) In 2005, about how many people lived in Northern Ireland?

million

1 mark

(b) In 2005, about what percentage of people in the UK lived in Wales?

Tick (✓) the correct value.

1% 5% 20% 63%

1 mark

8**Calculations**

Write the missing numbers.

$$962 + \dots = 1898$$

1 mark

$$\dots - 403 = 982$$

1 mark

$$51 \times \dots = 2397$$

1 mark

$$\dots \div 23 = 828$$

1 mark

9

Open garden

People pay to visit a garden.

Tickets:	
Age 16 and over	£3.60
Under 16	£2.25

145 people pay.

39 of them are **under 16**

How much ticket money is paid altogether?

Handwritten mark

2 marks

10

School uniform

A shop sells school uniform.

Two shirts and one jumper cost £29
One shirt and one jumper cost £21

How much does **one jumper** cost?

Handwritten mark

2 marks

11 Radio

Two websites sell the same type of radio.

	Website A	Website B
Cost of radio	£ 79.99	£ 76.76
Cost of postage	£ 3.49	£ 6.79

Sunil is going to buy the radio from one of the websites.

He also has to pay for postage.

Which website is **cheaper** and by how much?

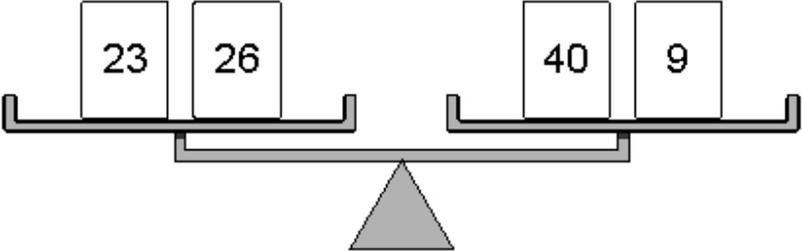
Handwritten mark

Handwritten mark Website is cheaper by

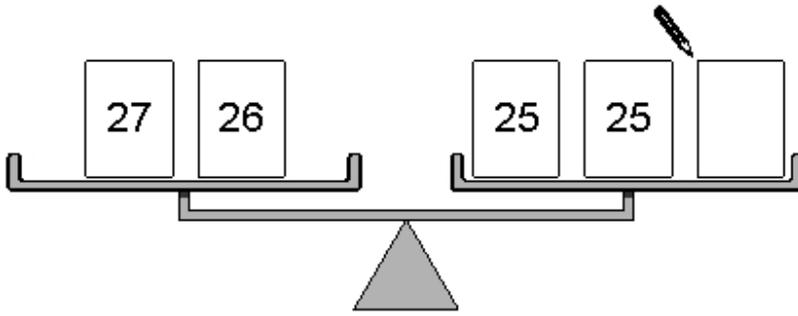
3 marks

12 Scale balance

The numbers on these scales balance.



Write the missing number so that these scales balance.



1 mark

13

Two digits

Here are four digit cards.



Show all the different **two-digit numbers** that are **bigger than 30** that you can make using these cards.

You can use the cards more than once.

Handwritten mark

2 marks

14

Doubling

(a) I think of a number.

I **double** my number and the answer is **178**

What is my number?

.....

1 mark

(b) I think of a different number.

I **double** my number, then I **double again**.

The answer is **312**

What is my number?

.....

1 mark

15

Beads

A bag contains coloured beads.

The table shows numbers and fractions of each colour.

Write the missing numbers and fractions in the table.

Colour	Number of beads	Fraction
Blue	12	
Red		$\frac{1}{12}$
Green	4	
Other		$\frac{1}{4}$

2 marks

16

Doing and undoing

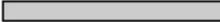
Write the missing fractions.

The first one is done for you, with diagrams to help.

For any number, x 

Add half the number 

Then subtract one third of the result.

The answer is x 

For any number, y

Add one third of the number

 Then subtract of the result.

The answer is y

1 mark

For any number, t

Add two thirds of the number

Then subtract of the result.

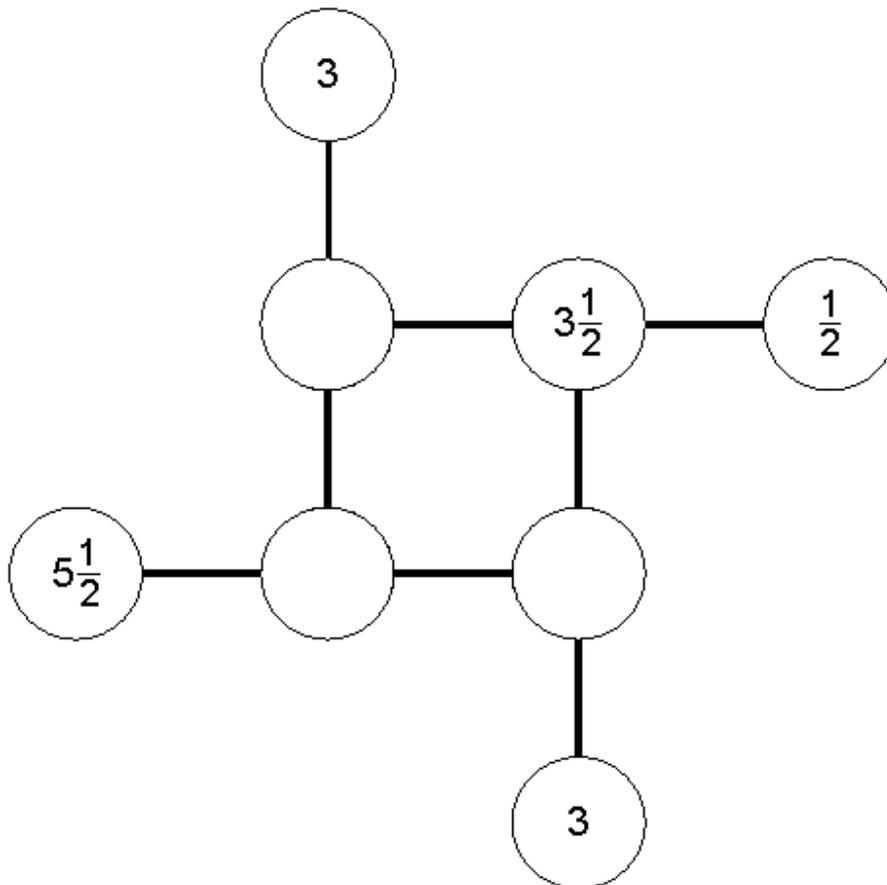
The answer is t

1 mark

17

Add to 8

Complete this diagram so that the three numbers in each line **add to 8**



2 marks

18 **Doing and undoing**

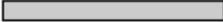
Write the missing fractions.

The first one is done for you, with diagrams to help.

For any number, x 

Add half the number 

Then subtract one third of the result.

The answer is x 

For any number, y

Add one third of the number

 Then subtract of the result.

The answer is y

1 mark