

PPTC

Post Primary Transfer Consortium

Mathematics

PRACTICE PAPER

**FOR INFORMATION ONLY.
SAMPLE NOT TO BE USED.**

Practice Test

1

Write this number in figures:

five thousand, one hundred and nine

A 5190

B 5019

C 519

D 51009

E 5109

2

What is the missing number in this sequence?

393

384

375



357

A 367

B 368

C 365

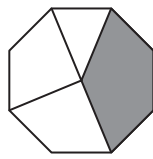
D 369

E 366

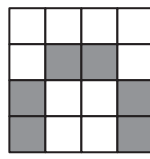
3

A fraction of each shape is shaded and all the fractions are equivalent except one.

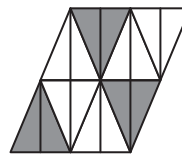
Which one?



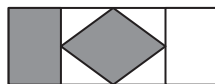
A



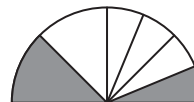
B



C



D



E

A A

B B

C C

D D

E E

4

Skye puts a cake in the oven at 3.17 pm.
The cake needs to cook for 20 minutes.

What time should she take it out of the oven?

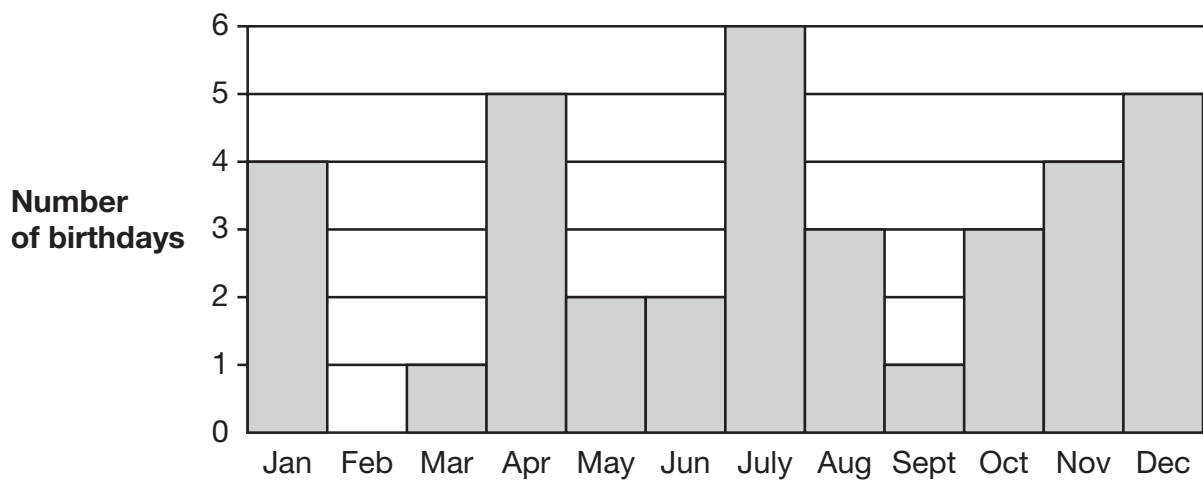
- A** 2.57 pm **B** 3.37 pm **C** 3.27 pm **D** 3.47 pm **E** 3.07 pm

5

Which is the greatest length?

- A** 3.09 metres
B 3.2 metres
C 44.78 metres
D 45 metres
E 3190 metres

6



This bar chart shows during which months the children in a class have their birthdays.

During which month are there most birthdays?

- A** April **B** December **C** January **D** July **E** November

7

How many 10p coins can I get for £1.80?

- A 10 coins
 - B 18 coins
 - C 88 coins
 - D 108 coins
 - E 180 coins
-

8

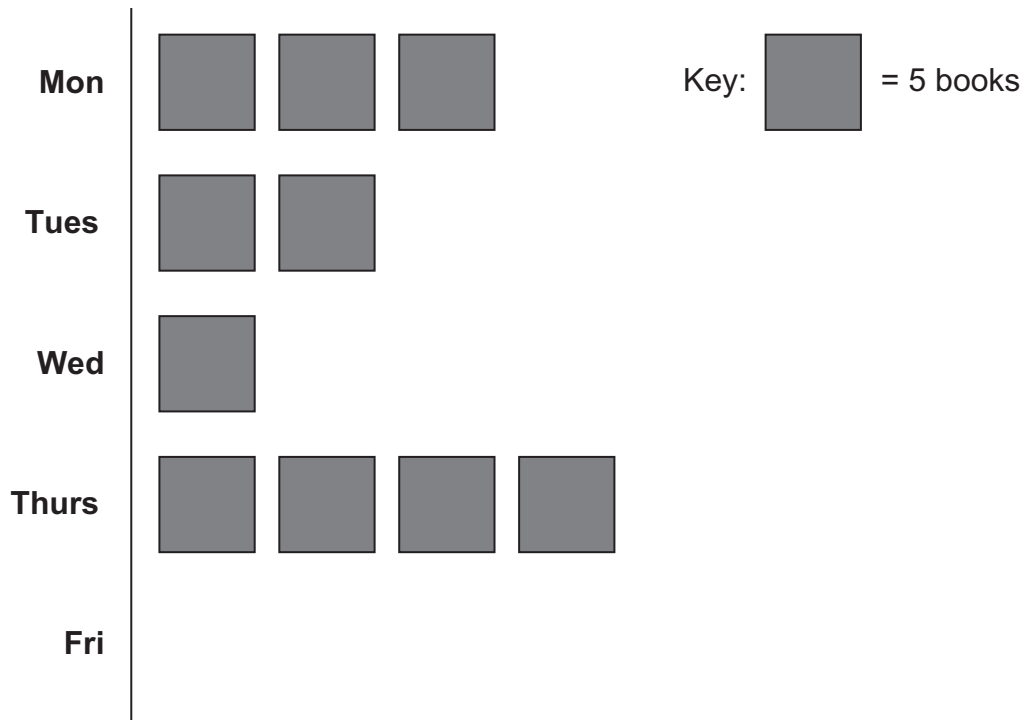
Ava had 5 boxes.
Each box weighed 800 grams.

How many KILOGRAMS was this altogether?

- A 4 kg
 - B 4.5 kg
 - C 40 kg
 - D 4000 kg
 - E 4500 kg
-






9

The pictogram shows the numbers of books borrowed from a library on different days.



Twice as many books were borrowed on Friday as on Tuesday.

Which answer shows the number of books borrowed on Friday?

- A 
- B 
- C 
- D 
- E 



Main Test

1

Write this number in figures:

eight thousand and twenty-five

- A** 8250 **B** 80025 **C** 8205 **D** 8025 **E** 800025

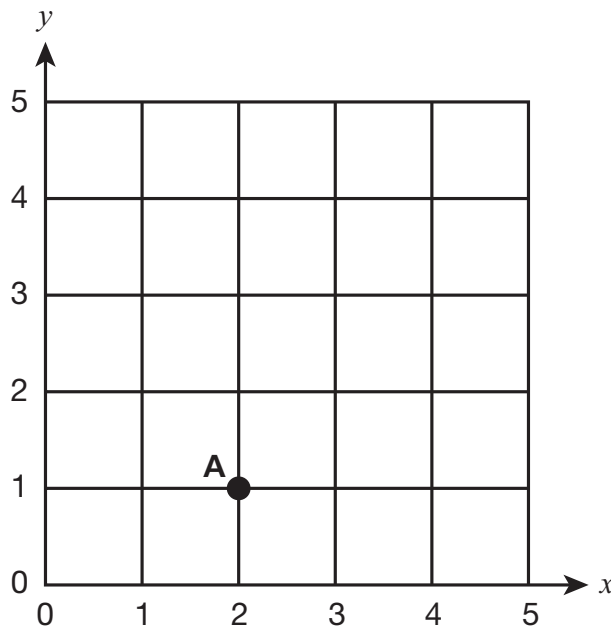
2

What is the next number in this sequence?

49 43 37 31

- A** 27 **B** 21 **C** 25 **D** 23 **E** 29

3



What are the co-ordinates of A?

- A** (1, 2) **B** (1, 1) **C** (2, 0) **D** (2, 2) **E** (2, 1)

4

Share 240 into 4 equal parts.

How many are in each part?

- A** 80 **B** 60 **C** 65 **D** 40 **E** 70
-

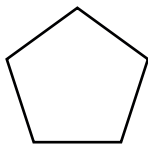
5

Wendy saved £2.50 a week.

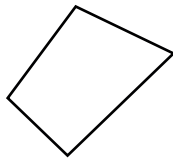
How many weeks did it take her to save £20?

- A** 4 weeks **B** 8 weeks **C** 9 weeks **D** 10 weeks **E** 14 weeks
-

6



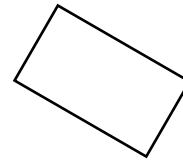
A



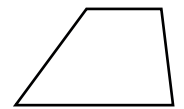
B



C



D



E

Which of these is NOT a quadrilateral?

- A** A **B** B **C** C **D** D **E** E
-

7

What is the value of the 7 in this number?

7240

- A** 7 thousands
B 7 hundreds
C 7 tens
D 7 ones
E 7 thousandths
-

8

What number would go in the box?

$$\frac{3}{4} = \frac{\square}{8}$$

A 5

B 6

C 7

D 9




E 12

9



stands for 12 ships.

Look at this table.

Dock	Number of Ships
A	
B	
C	

How many more ships are in dock A than dock C?

A 0.5

B 1

C 3

D 4

E 6

10

A train left at 10.20 am.

It arrived at 11.15 am.

How long did the journey take, in minutes?

A 45 minutes

B 55 minutes

C 65 minutes

D 75 minutes

E 95 minutes

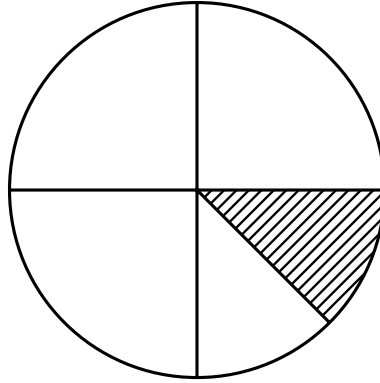
11

An empty box weighs 150 grams.
When it is filled with paper it weighs 1 kilogram.

How much does the paper weigh?

- A** 350 g **B** 750 g **C** 850 g **D** 950 g **E** 9850 g
-

12



What fraction of this circle is shaded?

- A** $\frac{1}{12}$ **B** $\frac{1}{5}$ **C** $\frac{1}{4}$ **D** $\frac{1}{6}$ **E** $\frac{1}{8}$
-

13

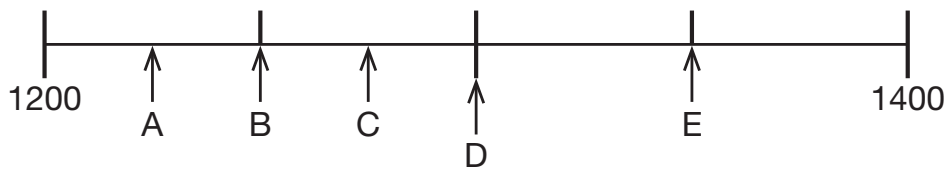
A number rounds to 640 when rounded to the nearest 10.

What number is it?

- A** 632 **B** 634 **C** 643 **D** 645 **E** 649
-

14

Which letter is pointing at 1250?



A A

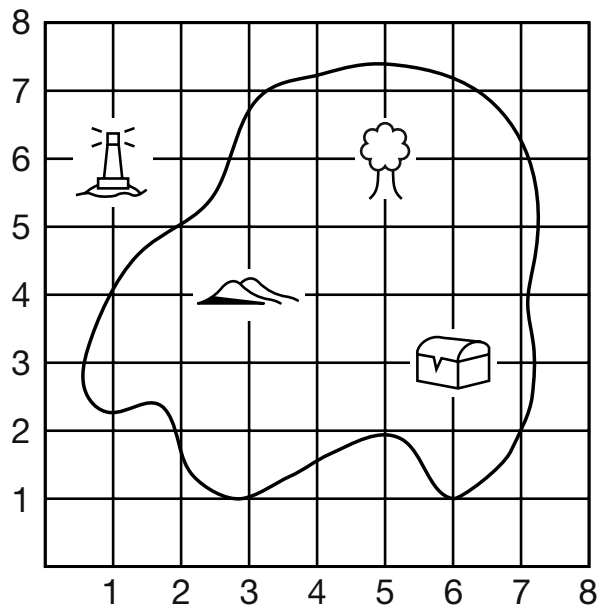
B B

C C

D D

E E

15



The hills are at (3 , 4).

The lighthouse is at (,).

A (6 , 1)

B (1 , 6)

C (5 , 6)

D (6 , 3)

E (1 , 7)

16

On a museum trip children were put into groups. There were 12 groups and each group had more than 10 and fewer than 16 children.

Which of these could be the total number of children?

- A** 190 **B** 130 **C** 176 **D** 182 **E** 126

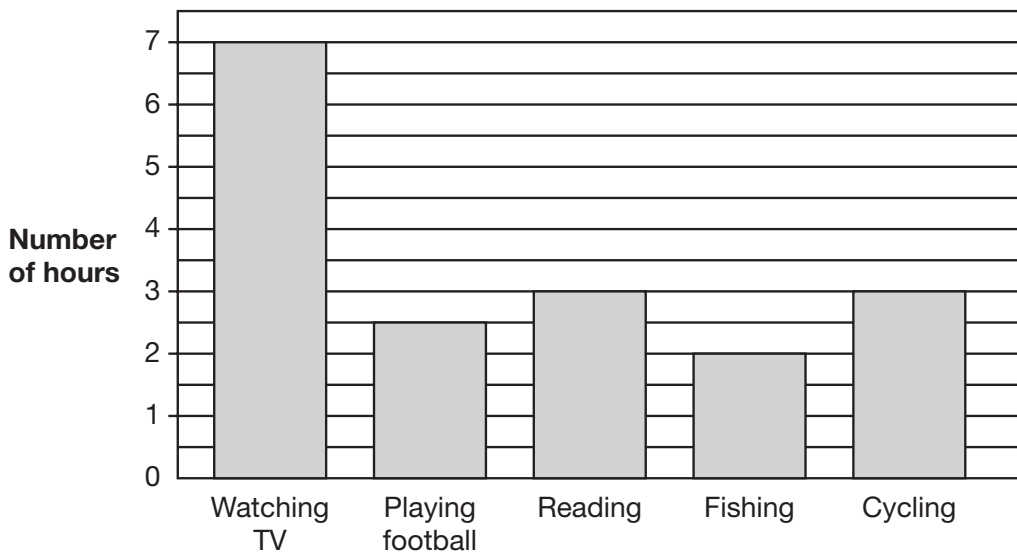
17

Change the order of the figures 6085 to make the biggest number possible.

- A** 8605 **B** 6850 **C** 8650 **D** 6580 **E** 8560

18

This chart shows how Kai spent his spare time last week.



How many hours did he spend outdoors playing football, fishing and cycling?

- A** 6.5 hours **B** 7 hours **C** 7.5 hours **D** 8 hours **E** 8.5 hours

19

Iveta was 1.43 metres tall.
She grew 2 centimetres more.

How tall was she then in metres?

- A** 1.45 m **B** 1.63 m **C** 1.65 m **D** 1.405 m **E** 1.603 m
-

20

There were 24 marbles in a bag.

I took out $\frac{1}{3}$ of the marbles.

How many marbles did I take out?

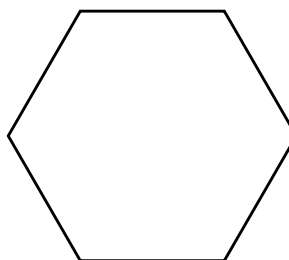
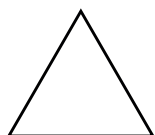
- A** 16 **B** 17 **C** 9 **D** 8 **E** 18
-

21

What is 3^2 ?

- A** 5 **B** 6 **C** 9 **D** 18 **E** 27
-

22



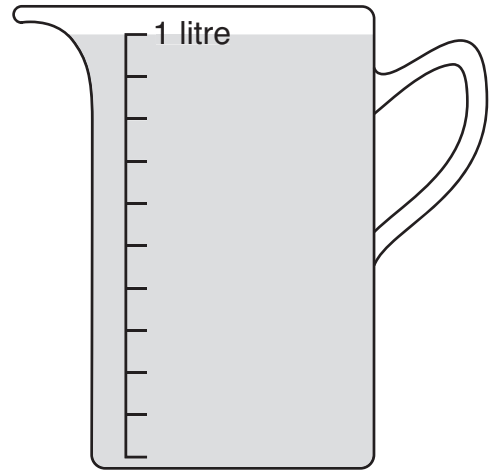
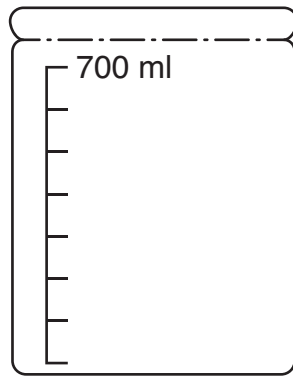
How many of the triangles will fill the hexagon?

- A** 10 **B** 9 **C** 8 **D** 6 **E** 4
-

23

A jug holding 1 litre of water

An empty jar – 700 ml



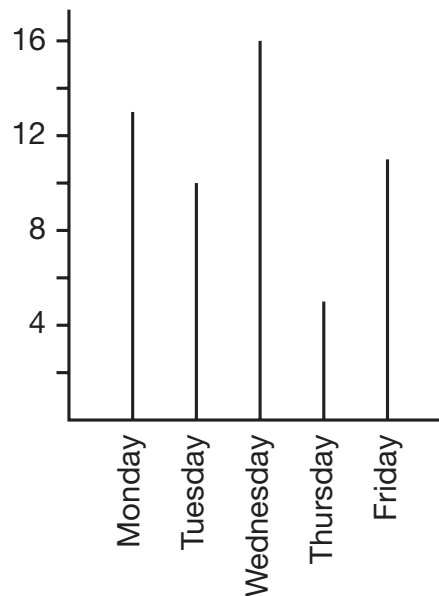
The jug holds 1 litre of water.
The jar is **filled** from the jug.

How much water will be left in the jug?

- A** 0.3 litres **B** 0.25 litres **C** 400 ml **D** 0.35 litres **E** 200 ml

24

Sati records how many children visit the school library each day.
This is the bar chart Sati draws to show her data.



How many children visited the library over the five days?

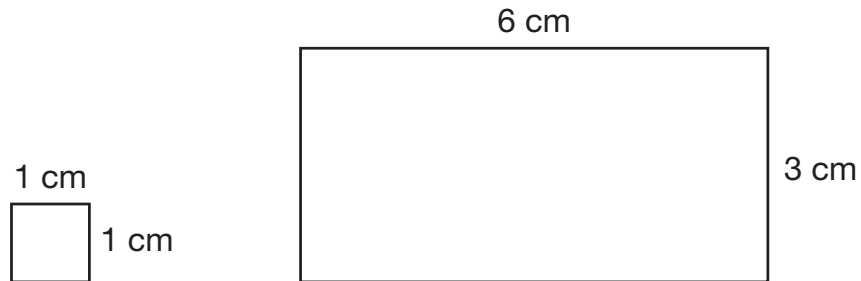
- A** 55 **B** 54 **C** 53 **D** 52 **E** 51

25

$3.6 \times 10 =$

- A 0.36 B 0.036 C 36 D 360 E 36.6
-

26



How many small squares will fit into the large rectangle?

- A 12 B 15 C 18 D 21 E 24
-

27

$324 \div 6 =$

- A 44 B 54 C 56 D 58 E 64
-

28

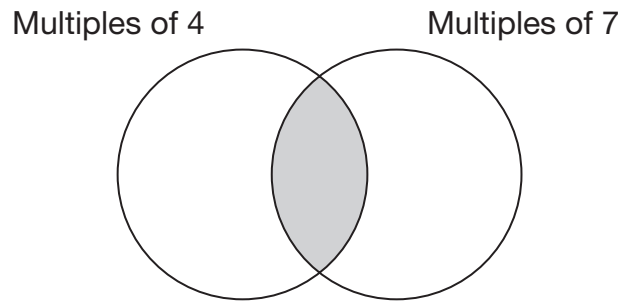
Karen wants to buy a guitar.
She has saved £43.95.
The guitar costs £65.00.

How much more money does she need?

- A £22.05 B £21.05 C £20.05 D £12.05 E £11.05
-

29

Which number belongs in the shaded section of this diagram?



- A** 11 **B** 16 **C** 21 **D** 28 **E** 47

30

A television programme finished at 4.55 pm.
It lasted for three-quarters of an hour.

At what time did it start?

- A** 4.15 pm **B** 4.10 pm **C** 4.05 pm **D** 4.25 pm **E** 4.20 pm

31

$0.02 + 7.8 =$

- A** 7.802 **B** 7.82 **C** 7.822 **D** 8.00 **E** 7.102

32

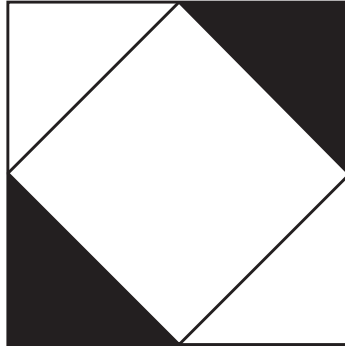
Three pieces of wood are cut from a plank 1 metre long.
Each piece is 30 cm long.

How long is the piece left over?

- A** 10 cm **B** 40 cm **C** 70 cm **D** 910 cm **E** 970 cm

33

Paz draws this pattern.



How many lines of symmetry does the pattern have?

- A** 0 **B** 1 **C** 2 **D** 3 **E** 4
-

34

Liam carried ten parcels.
Each parcel weighed 250 grams.

How many KILOGRAMS was this altogether?

- A** 25 kg **B** 2.50 kg **C** 2.25 kg **D** 0.25 kg **E** 0.025 kg
-

35

This table shows how long Layla took to walk to school each day last week.

Day	Time taken
Monday	15 minutes
Tuesday	12 minutes
Wednesday	18 minutes
Thursday	17 minutes
Friday	13 minutes

What was the average (mean) time taken in minutes?

- A 11 minutes
- B 13 minutes
- C 15 minutes
- D 16 minutes
- E 17 minutes

36

Mateo's temperature is 37.5°C .
When he was ill it rose 3°C

What was his temperature when he was ill?

- A 37.8°C
- B 47.5°C
- C 34.5°C
- D 37.2°C
- E 40.5°C

37

Zoey has a large carpet in her room.
It is 5 metres long and 4 metres wide.

What is the distance all around the edge of the carpet?

- A 14 m
- B 16 m
- C 18 m
- D 19 m
- E 20 m

Richard was doing his mathematics project.
He recorded the colours of the cars in the staff car park.

Blue	White	Red	Red	Red	Black
White	Green	Grey	White	White	Red
Black	White	White	Red	White	Red
White	Red	Blue	Black	Green	Red
Blue	White	Blue	White	Blue	Grey

He put the information into a frequency table.

Colour of Car	Frequency
Blue	5
White	10
Red	7
Black	3
Other colours	4

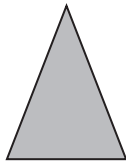
He has made a mistake in one row.

Which one?

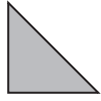
- A** Blue
- B** White
- C** Red
- D** Black
- E** Other colours

39

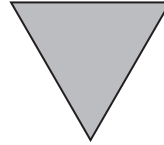
Here are five triangles:



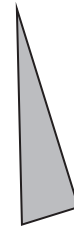
A



B



C



D



E

Which triangle DOES NOT have a line of symmetry?

A A

B B

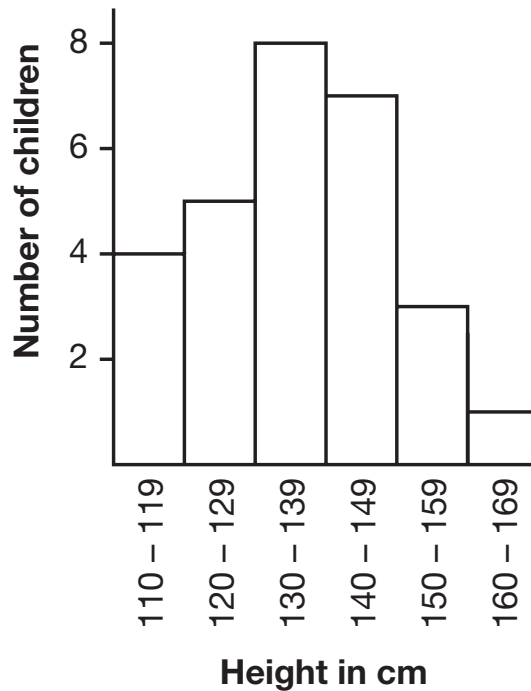
C C

D D

E E

40

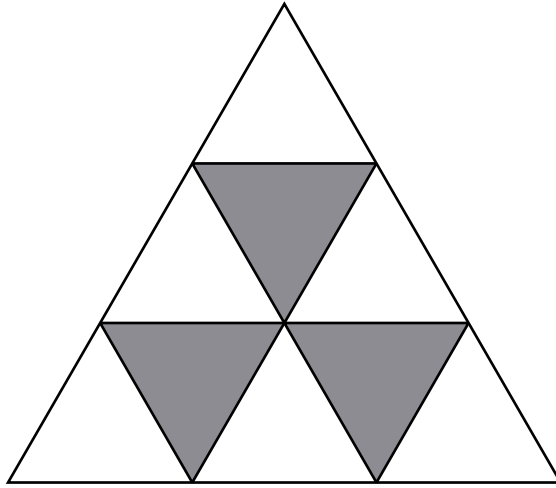
The bar chart shows the heights of a class of pupils:



Which statement MUST be true?

- A 1 child is exactly 165 cm tall.
- B 5 children have a height between 120 cm and 129 cm.
- C No children have a height less than 111 cm.
- D 7 children have a height more than 140 cm but less than 150 cm.
- E 8 children have a height of less than 139 cm.

41



What fraction of the whole shape is shaded?

A $\frac{3}{10}$

B $\frac{1}{3}$

C $\frac{3}{8}$

D $\frac{1}{4}$

E $\frac{3}{11}$

42

Look at the table of pocket money.

Name	Pocket money
Seema	£10.00
Mariam	£5.00
Charlie	£6.00
Xavier	£4.00
Jamie	£6.00
Lucas	£7.00
Gabriella	£4.00

What is the average (mean) amount of pocket money?

A £4.00

B £5.00

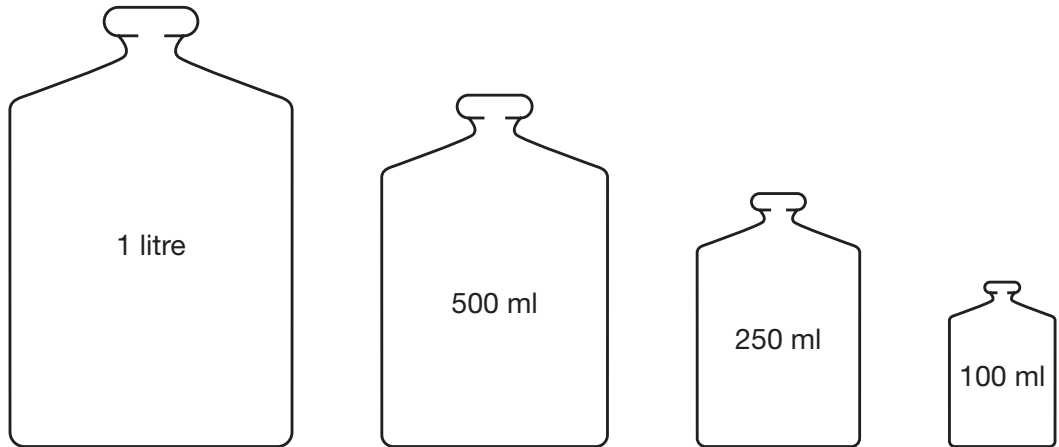
C £6.00

D £7.00

E £7.50

43

Look at these bottles.

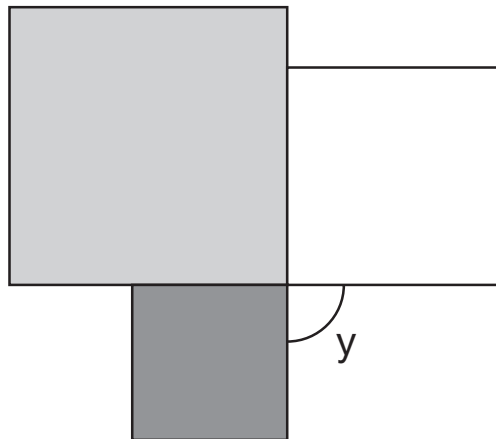


How many times would you have to fill the 250 ml bottle to make 1 litre?

- A** 8 times **B** 14 times **C** 4 times **D** 3 times **E** 40 times
-

44

Three different squares are drawn next to each other.



What is the size of angle y?

- A** 90° **B** 100° **C** 120° **D** 150° **E** 180°
-

45

Adrian's garden measures 10 m by 6 m.

Paving stones measure $\frac{1}{2}$ m by $\frac{1}{2}$ m.

How many paving stones does he need to pave his garden?

A 180

B 240

C 15

D 30

E 120

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