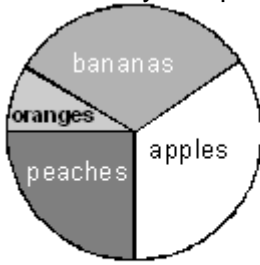
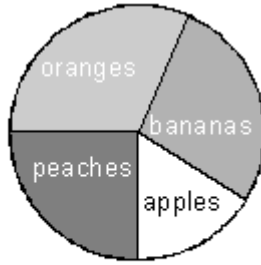


Q1. Some children work out how much money two shopkeepers get from selling fruit. They use pie charts to show this.



Mrs Binns



Mr Adams

Mrs Binns gets **£350** selling **bananas**.

Estimate how much she gets selling **oranges**.



Show your **working**.
 You may get a mark

£

1 mark

Mrs Binns gets a total of £1000 and Mr Adams gets a total of £800.

Estimate how much **more** Mrs Binns gets than Mr Adams for selling **peaches**.

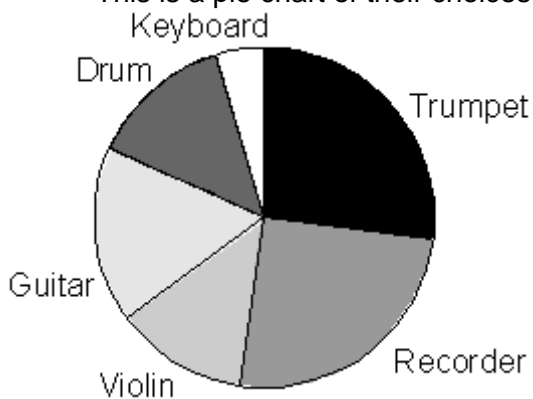


Show your **working**.
 You may get a mark

£

1 mark

Q2. The Year 6 children in a school were asked to choose a musical instrument. This is a pie chart of their choices.



Estimate what **fraction** of the children chose a **drum**.

1 mark

There are **80** children in Year 6.

Estimate the number of children who chose a **violin**.

1 mark

Explain how you decided.

.....

1 mark

15% of the 80 children chose a **guitar**.

How many children is this?



2 marks

Q3. Here are some number cards.



Use **two** of the cards to make a fraction which is **less than** $\frac{1}{2}$.



1 mark

How much **less than 1** is your fraction?

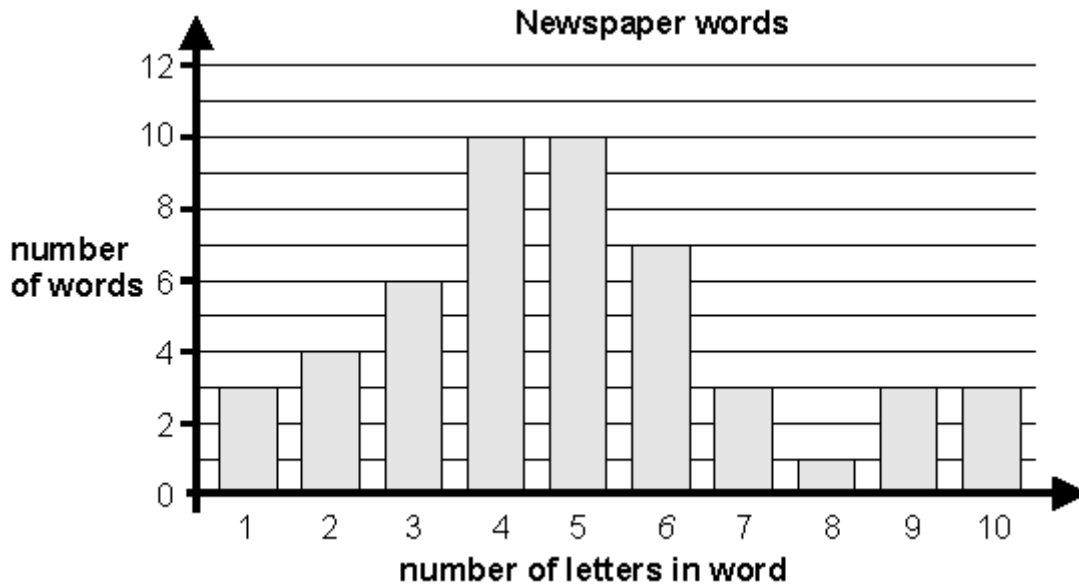


1 mark

Q4. Kelly chooses a **section** of a newspaper.

It has **50 words** in it.

She draws a bar chart of the number of letters in each word.



What **fraction** of the 50 words have **more than 6 letters**?

Handwritten mark

1 mark

Kelly says,

***23 of the 50 words have less than 5 letters.
This shows that nearly half of all the words used in the newspaper have less than 5 letters in them.***

Explain why she **could be wrong**.

Handwritten mark

.....

.....

1 mark

Q5. Calculate 24% of 525

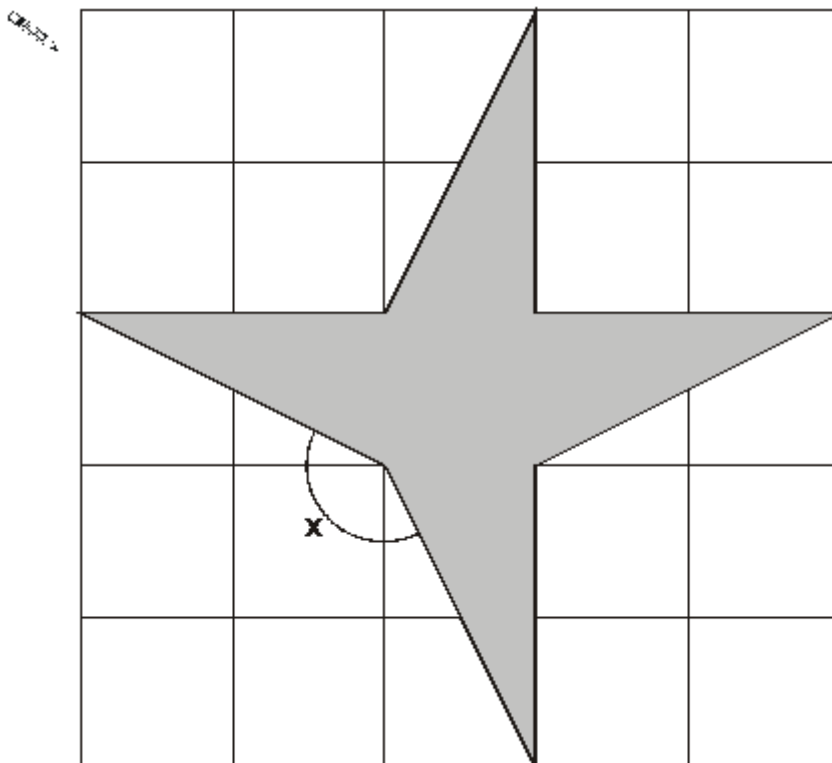
جوابك

1 mark

Q6. Here is a shaded shape on a grid made of squares.

Draw the line of symmetry of the shaded shape.

You may use a mirror or tracing paper.



1 mark

What **fraction** of the area of the grid is shaded?



1 mark

Measure **angle x** in degrees.

Use an angle measurer (protractor).



1 mark

Q7. Calculate $\frac{7}{8}$ of 5000



1 mark

Q8. Calculate of $\frac{5}{12}$ of 378

1 mark

Q9. Here is a recipe for raspberry ice cream.

raspberry ice cream for 8 people
$\frac{1}{2}$ litre of cream
1kg raspberries
250g sugar



This recipe is for **8 people**.

Josie makes enough raspberry ice cream for **12 people**.

How much **cream** does she use?

 litre

1 mark

Fred makes raspberry ice cream in the same way.

He uses **2½ kg** of raspberries.

How much **sugar** does he use?



Show your **working**.
You may get a mark

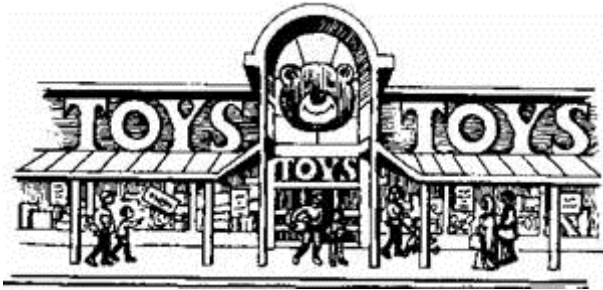
g

Q10. Calculate **15%** of **460**

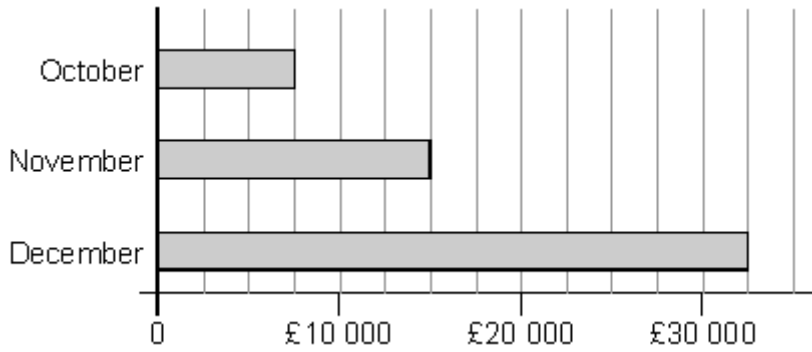
جوابك هنا

1 mark

Q11.



This chart shows the amount of money spent in a toy shop in three months.



How much **more** money was spent in the shop in **December** than in **November**?

Handwritten mark: $\frac{3}{5}$

1 mark

Stepan says,

'In November there was a 100% increase on the money spent in October'.

Is he correct?

Circle Yes or No.

Handwritten mark: $\frac{3}{5}$ **Yes / No**

Explain how you can tell from the chart.

Handwritten mark: $\frac{3}{5}$

.....

.....

.....

1 mark

Q12.

Complete these fractions to make each equivalent to

$\frac{3}{5}$

Handwritten mark: $\frac{3}{5}$

$$\frac{\square}{10}$$

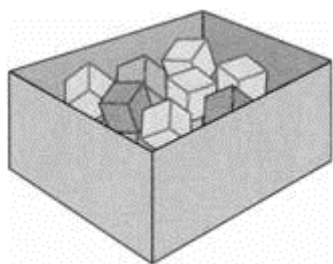
$$\frac{\square}{15}$$

$$\frac{12}{\square}$$

1 mark

Q13. There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,
four of the cubes are blue
and the rest are green.



How many **green** cubes are in the box?

Show your **working**.
You may get
a mark

2 marks

One more **blue** cube is put into the box.


What fraction of the cubes in the box are **blue** now?

1 mark

Q14. Which is larger, $\frac{1}{3}$ or $\frac{2}{5}$?



Explain how you know.



.....

.....

1 mark

Q15. Calculate $\frac{1}{5}$ of 325



1 mark

Q16.



250 000 people visited a theme park in one year.

15% of the people visited in April and

40% of the people visited in August.

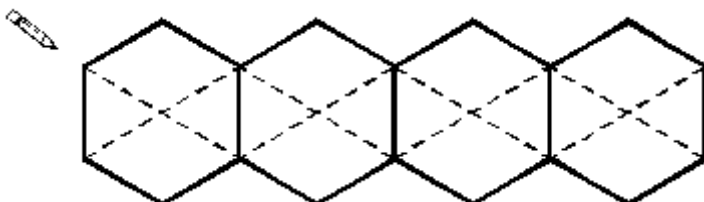
How many people visited the park in the rest of the year?

A large rectangular box for showing working. In the top left corner, there is a small pencil icon. On the left side, there is a speech bubble containing the text: "Show your **working**. You may get a mark". An arrow points from the right side of the speech bubble towards the center of the box. In the bottom right corner of the box, there is a smaller empty rectangular box.

2 marks

Q17. This diagram shows four regular hexagons.

Shade in **one third** of the diagram.



1 mark

Q18. Calculate $\frac{3}{8}$ of **980**



1 mark

Q19. Three-quarters of a number is **48**
What is the number?



1 mark

Q20. Calculate **5%** of **£3600**



1 mark

Q21. Write in the missing numbers.



30% of 60 is

1 mark

30% of is 60

1 mark

Q22. Write these fractions in order of size starting with the smallest.

$\frac{3}{4}$

$\frac{3}{5}$

$\frac{9}{10}$

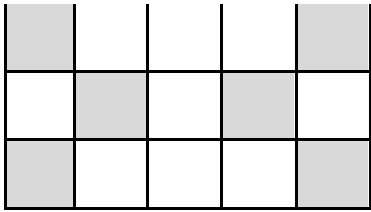
$\frac{17}{20}$



smallest

1 mark

Q23. Here is a pattern on a grid.



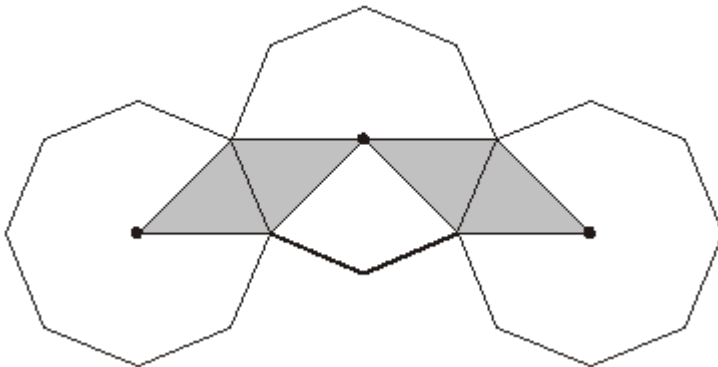
What **percentage** of the grid is shaded?

%

1 mark

Q24. The diagram shows three regular octagons joined together.

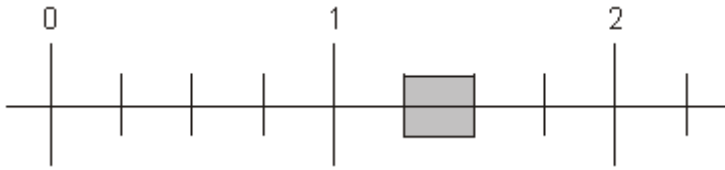
There is a dot at the centre of each octagon.



What fraction of the diagram is shaded?

1 mark

Q25. Part of this number line is shaded.



Circle **all** the numbers below that belong in the shaded part of the number line.



1.1

1.4

$\frac{1}{3}$

$\frac{1}{5}$

1 mark

Q26.



Emily makes 250 grams of a snack mixture.

15% of the weight is raisins, 25% is banana chips and the rest is peanuts.

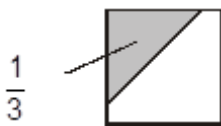
How many grams of **peanuts** does she use?

Show your **working**.
You may get a mark

g

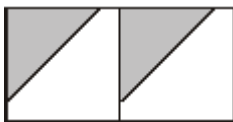
2 marks

Q27. $\frac{1}{3}$ of this square is shaded.



The same square is used in the diagrams below.

What fraction of this diagram is shaded?



1 mark

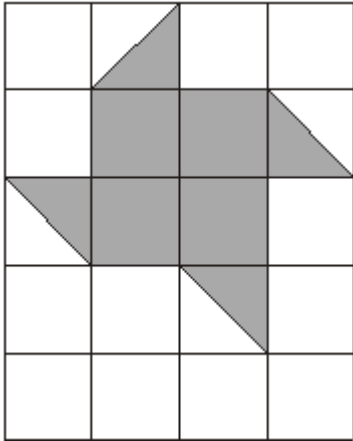
What fraction of this diagram is shaded?





1 mark

Q28. Here is a grid of 20 squares.



What percentage of the grid is shaded?


 %

1 mark

Q29. Two of the fractions below are **equivalent**.

Circle them.



$\frac{2}{3}$

$\frac{6}{10}$

$\frac{9}{12}$

$\frac{10}{15}$

$\frac{16}{20}$

1 mark

Q30. Calculate $\frac{7}{16}$ of 288



1 mark

Q31. If you know **40%** of a number, explain how you could work out the original number.



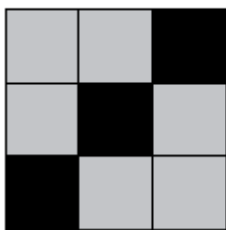
1 mark

Q32. Circle the fraction that is greater than $\frac{1}{2}$ but less than $\frac{3}{4}$

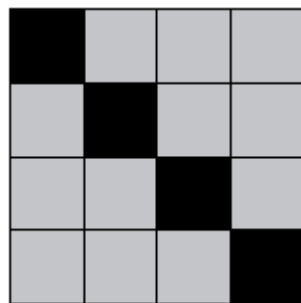
لعل $\frac{7}{8}$ $\frac{2}{5}$ $\frac{1}{3}$ $\frac{5}{8}$ $\frac{3}{6}$

1 mark

Q33. These patterns are drawn on square grids.



Pattern A



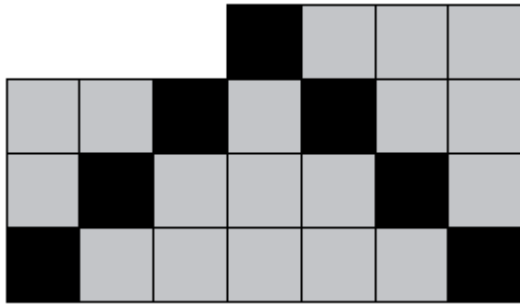
Pattern B

In pattern A, the **ratio** of black squares to grey squares is **1 : 2**

What is the ratio of black squares to grey squares in pattern B?

1 mark

Now look at this new pattern.

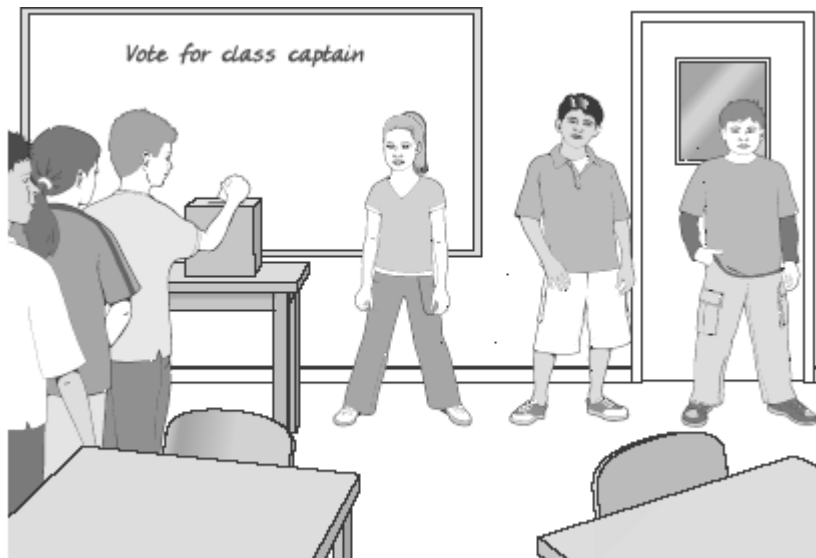


What **percentage** of the new pattern is **black**?

 %

1 mark

Q34.



All the children in Class 6 vote to pick a class captain.

The choice is Holly or Dev or Joe.

	Vote once
Holly	<input type="checkbox"/>
Dev	<input type="checkbox"/>

Joe	<input type="checkbox"/>
-----	--------------------------

Dev gets 10% of the votes.

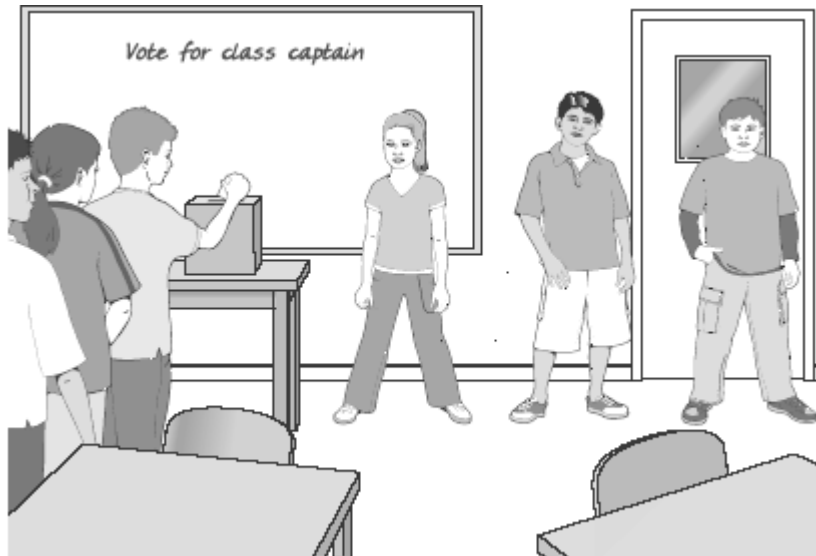
Joe gets twice as many votes as Holly.

What percentage of the votes does the winner get?

	<input type="text"/>	%
---	----------------------	---


1 mark

Q35.



All the children in Class 6 vote to pick a class captain.

The choice is Holly or Dev or Joe.

	Vote once
	
Holly	<input type="checkbox"/>

Dev	<input type="checkbox"/>
Joe	<input type="checkbox"/>

Dev gets 10% of the votes.

Joe gets twice as many votes as Holly.

What percentage of the votes does the winner get?

<input type="text"/>	%
----------------------	---

1 mark