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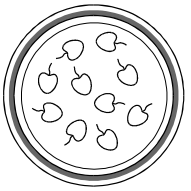
Fractions, Decimals and Percentages KS2 SATS Standard Worksheet

1. Jack ate **half** the cherries on the plate.

These are the cherries that were **left**.

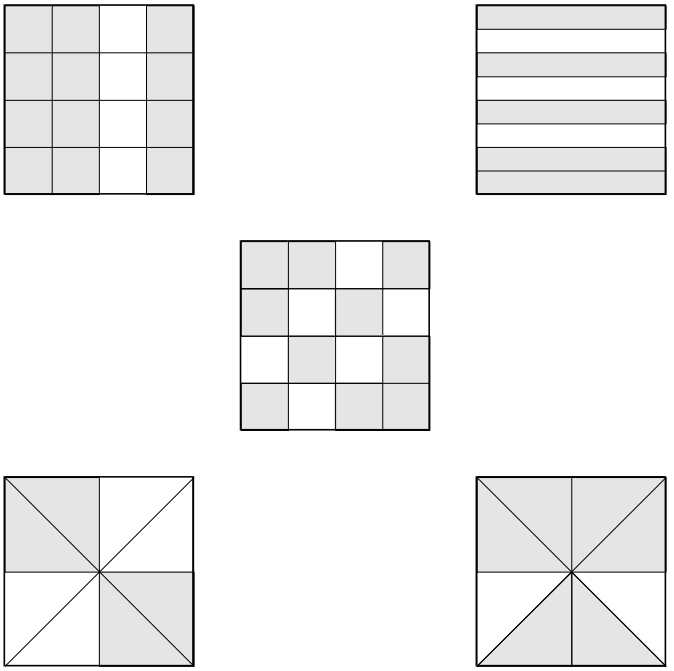


How many cherries were on Jack's plate **before** he ate half of them?

cherries

1 mark

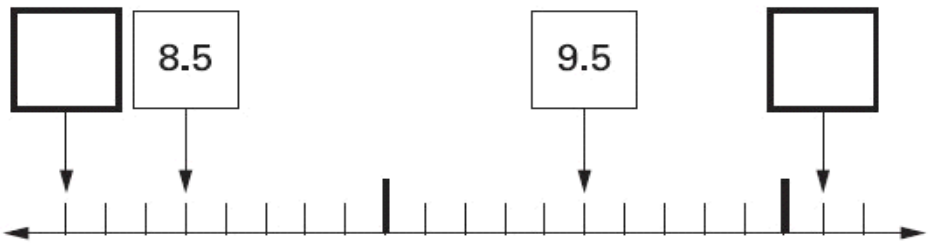
2. Tick (✓) the **two** shapes that have **three-quarters** shaded.



1 mark

3. Here is part of a number line.

Write in the numbers missing from the **two** empty boxes.



2 marks

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4.



Tom and Nadia have 16 cards each.

Tom gives Nadia 12 of his cards.

How many cards do Tom and Nadia each have now?

Tom ☐ **Nadia** ☐

1 mark

Lucy also has 16 cards.

She gives a quarter of her cards to Kiran.

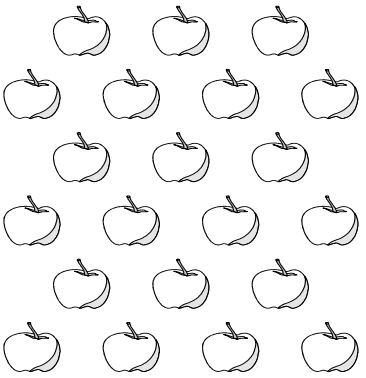
How many cards does Lucy give to Kiran?

☐

1 mark

5. Here are 21 apples.

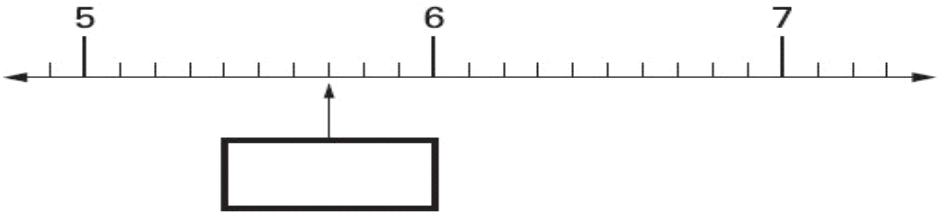
Put a ring around **one third** of them.



1 mark

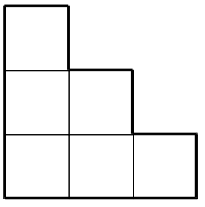
6. Here is part of a number line.

Write the **missing** number in the box.



1 mark

7. Shade **one third** of this shape.



1 mark

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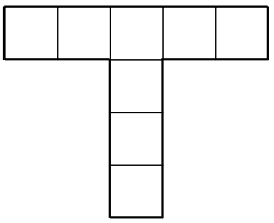
Shade **one quarter** of this shape.



1 mark

8. Tick (✓) **two** cards that give a **total of 5**

$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$
$3\frac{1}{2}$	$3\frac{3}{4}$	$4\frac{1}{4}$

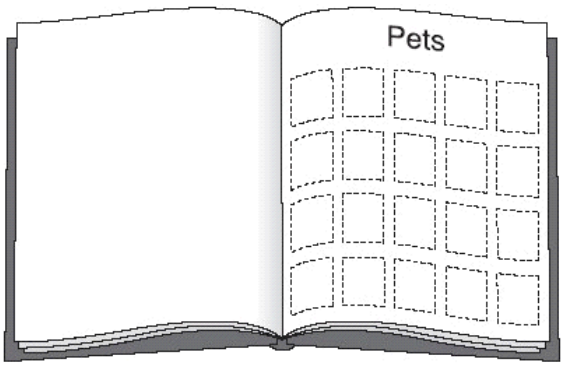
1 mark

9. Write the **two** missing numbers in this sequence.

$\frac{1}{4}$ $\quad$ $\frac{1}{2}$ $\quad$ $\frac{3}{4}$ $\quad$ 1 $\quad$ ☐ $\quad$ $1\frac{1}{2}$ $\quad$ ☐ $\quad$ 2

1 mark

10. Meg has 20 pet stickers to go on this page.



$\frac{1}{4}$ of them are dog stickers.

$\frac{1}{2}$ of them are cat stickers.

The rest are rabbit stickers.

How many rabbit stickers does she have?

stickers

1 mark

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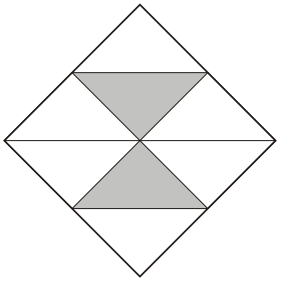
11. Circle the **two** fractions that are **greater than** $\frac{1}{2}$

$\frac{1}{8}$ $\frac{6}{10}$ $\frac{5}{8}$ $\frac{3}{10}$

1 mark

12. Here is a square.



What fraction of the square is shaded?

1 mark

13. Circle the **two** fractions that have the same value.

$\frac{2}{10}$ $\frac{1}{3}$ $\frac{1}{2}$

$\frac{5}{10}$ $\frac{1}{4}$

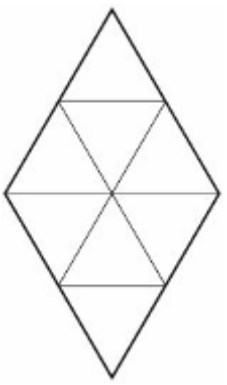
1 mark

14. Draw an arrow (↓) on the number line to show $1\frac{3}{4}$



1 mark

15. Shade $\frac{1}{4}$ of this shape.



1 mark

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16. John had £5

He gave 25% of it to charity.

How much did he give?

£

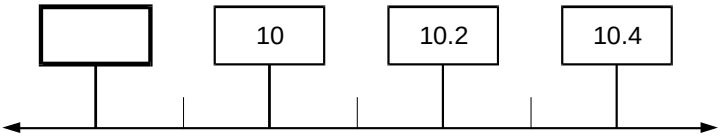
1 mark

17. Tick (✓) the **two** numbers which have a total of **10**

0.01	0.11	1.01
9.09	9.9	9.99

1 mark

18. Write in the **missing** number on this number line.



1 mark

19. A larger bottle of juice will hold **30% more** than this bottle.



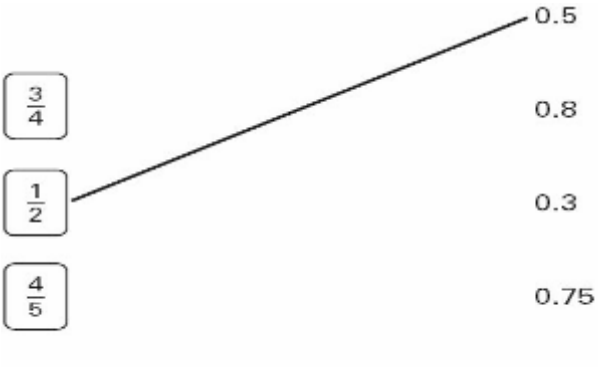
How much will the larger bottle hold?

ml

1 mark

20. Match each box to the number which has the same value.

One has been done for you.



1 mark

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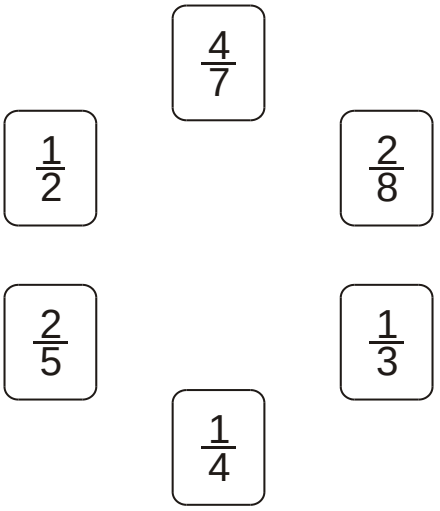
21. Calculate **60%** of **765**.

1 mark

22. Draw **one** line to join **two fractions** which have the **same value**.



1 mark

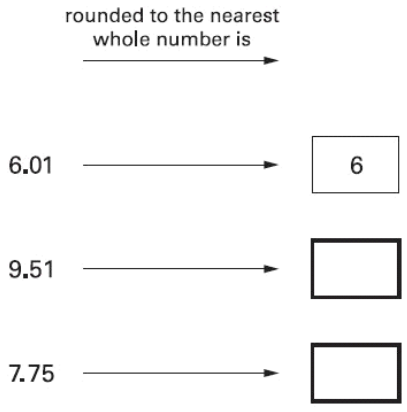
23. Circle **two** numbers which **add** to make **0.12**

0.1 **0.5** **0.05** **0.7** **0.07** **0.2**

1 mark

24. Write in the missing numbers.

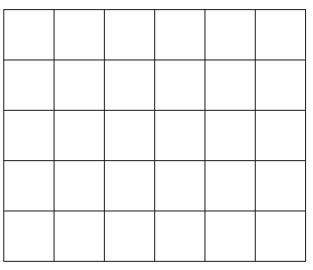
One has been done for you.



1 mark

25. Here is a grid made of squares.

Shade **10%** of this grid.



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1 mark

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26. Write the **same** number in each box to make this correct.

$\square + \square + \square = 10.5$

1 mark

27. Calculate $\frac{3}{4}$ of **840**

1 mark

28. Circle the **two** fractions that are equivalent to **0.6**

$\frac{6}{10}$ $\frac{1}{60}$ $\frac{60}{100}$ $\frac{1}{6}$

1 mark

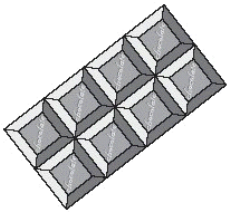
29. Put a tick (✓) in **each row** to complete this table.

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
0.9	✓	
0.06		
$\frac{11}{20}$		
0.21		

2 marks

30. Here is a chocolate bar.



William eats 3 pieces and Amber eats 2 pieces.

What **fraction** of the chocolate bar **remains**?

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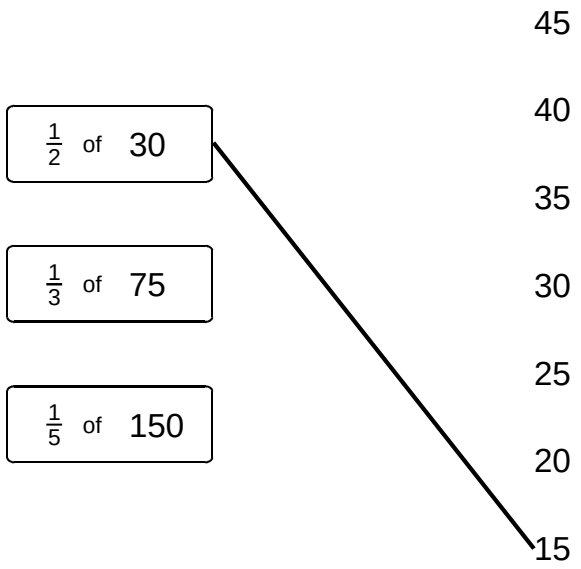
1 mark

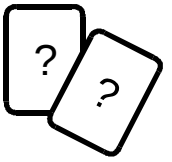
31. Match each box to the correct number.

One has been done for you.



1 mark

32. Karen makes a fraction using two number cards.

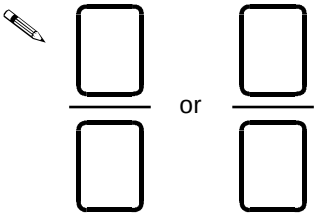


She says,

'My fraction is equivalent to $\frac{1}{2}$
One of the number cards is 6'

What could Karen's fraction be?

Give both possible answers.



2 marks

33. Here is part of a number line.

Write in the two missing numbers.

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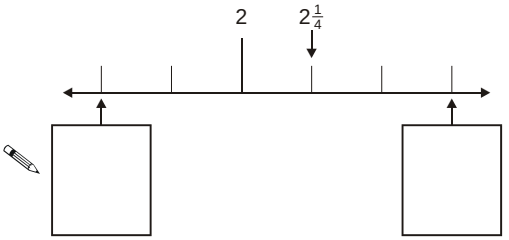
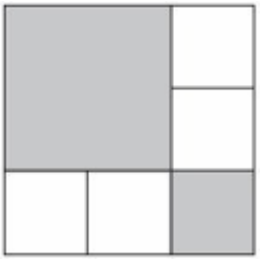


2 marks

34. The diagram is made of squares.

What fraction of the diagram is shaded?



1 mark

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35. Calculate $\frac{1}{5}$ of **325**

1 mark

36. 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

37. Write these numbers in order.

One has been done for you.

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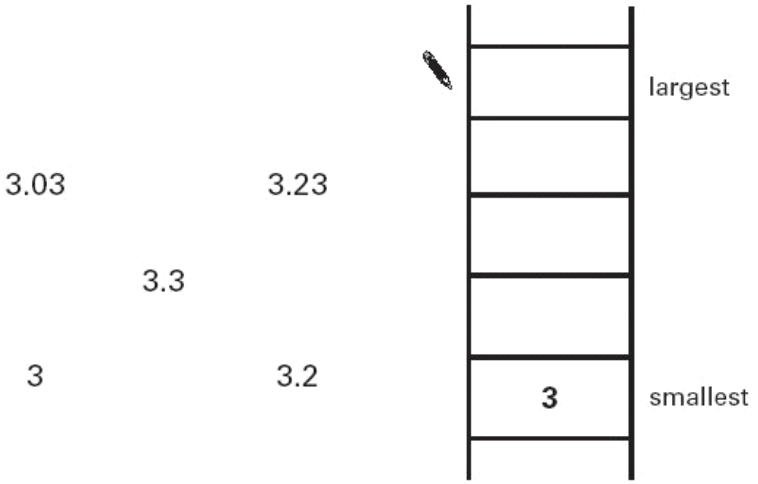


1 mark

38. Write in the missing numbers.

30% of 60 is ☐

1 mark

30% of ☐ is 60

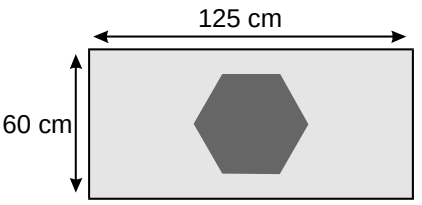
1 mark

39. Calculate **31.6 × 7**

☐

1 mark

40. Here is a flag.



What is the **area** of **this flag**?

☐ cm²

2 marks

20% of the flag is blue.

What **area** of the flag is **blue**?

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cm²

2 marks

41. Complete these fractions to make each equivalent to $\frac{3}{5}$

$\frac{\square}{10}$ $\frac{\square}{15}$ $\frac{12}{\square}$

1 mark

42. Calculate **15%** of **460**

1 mark

43. Here are some number cards.



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

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

1 mark

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

.....

1 mark

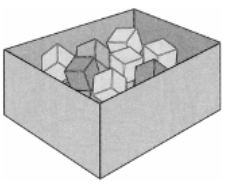
44. Calculate **5%** of **£3600**

£

1 mark

45. There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,



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four of the cubes are blue

and the rest are green.

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



2 marks

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

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

1 mark

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

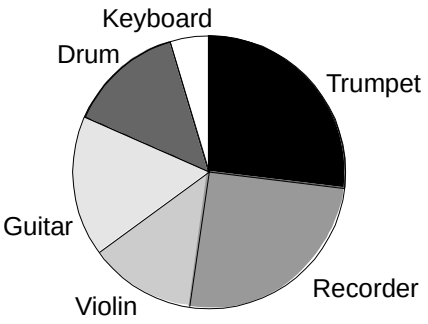
Explain how you know.

.....

.....

1 mark

47. 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**.

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1 mark

Explain how you decided.

.....

.....

1 mark

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

How many children is this?

2 marks

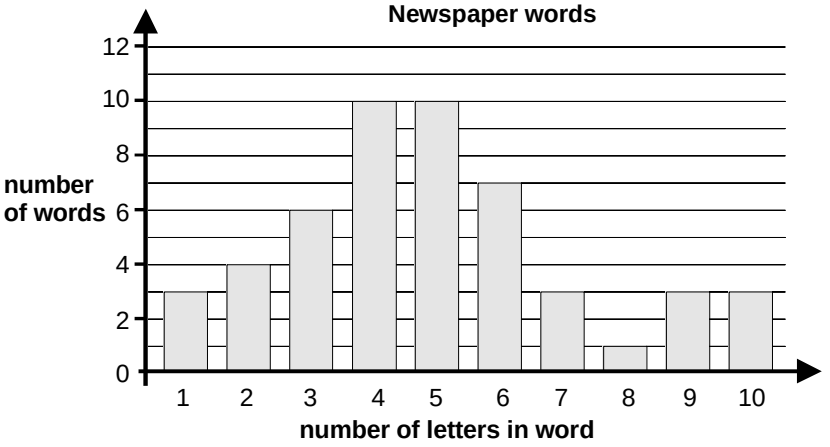
48. Calculate $\frac{3}{8}$ of **980**

1 mark

49. 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**?

1 mark

Kelly says,

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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.**

.....

.....

1 mark

50. Calculate of $\frac{\mathbf{5}}{\mathbf{12}}$ of **378**

1 mark

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51.

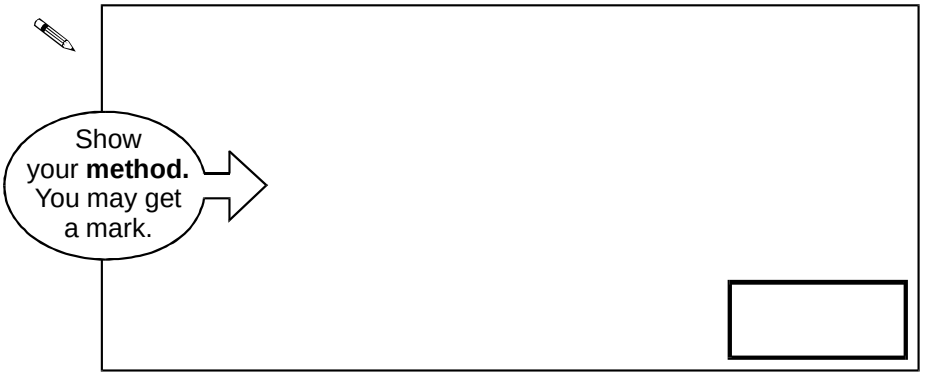


250 000 people visited a theme park in one year.

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?



2 marks

52. Calculate **24%** of **525**

1 mark