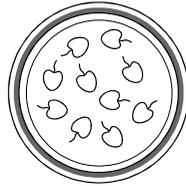


Fractions, Decimals and Percentages KS2 SATS Standard Worksheet

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

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

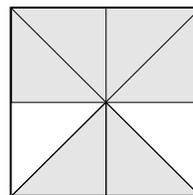
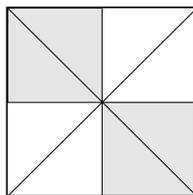
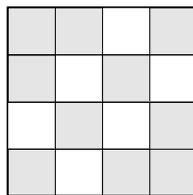
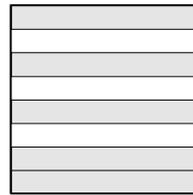
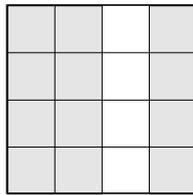


How many cherries were on Jack's plate **before** he ate half of them?

cherries

1 mark

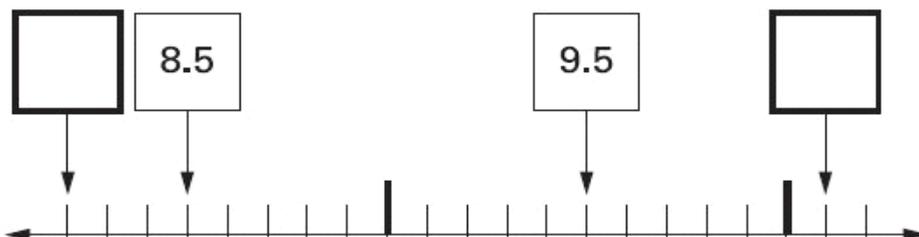
2. Tick (✓) the **two** shapes that have **three-quarters** shaded.



1 mark

3. Here is part of a number line.

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



2 marks

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.

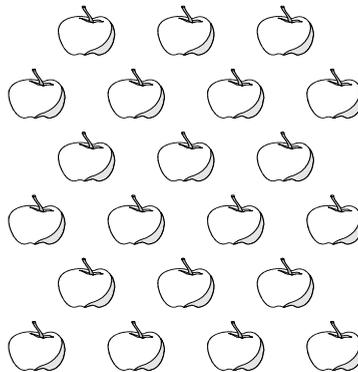
She gives a quarter of her cards to Kiran.

How many cards does Lucy give to Kiran?

1 mark

5. Here are 21 apples.

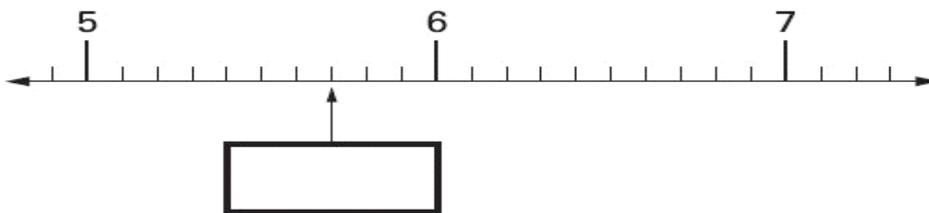
Put a ring around **one third** of them.



1 mark

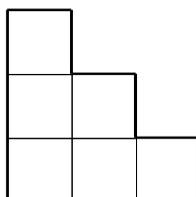
6. Here is part of a number line.

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



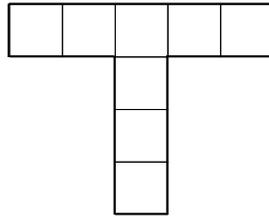
1 mark

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



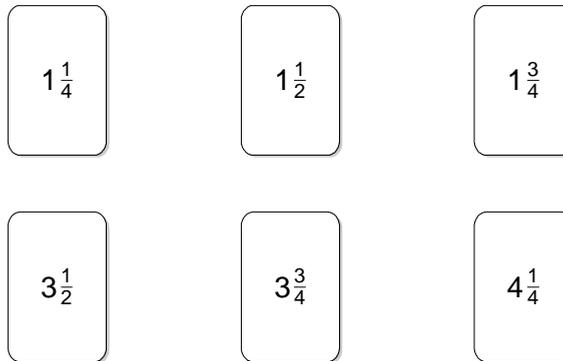
1 mark

Shade **one quarter** of this shape.



1 mark

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



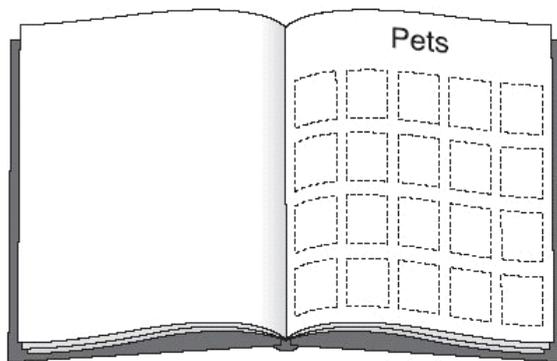
1 mark

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



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

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

$$\frac{1}{8}$$

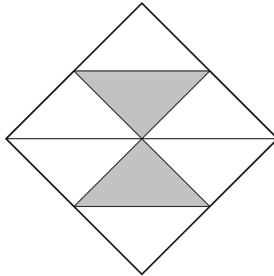
$$\frac{6}{10}$$

$$\frac{5}{8}$$

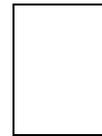
$$\frac{3}{10}$$

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.

$$\frac{2}{10}$$

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

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

$$\frac{5}{10}$$

$$\frac{1}{4}$$

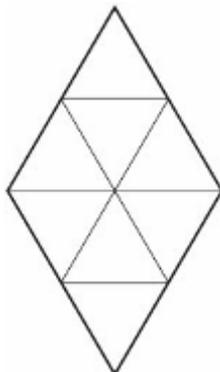
1 mark

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



1 mark

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



1 mark

16. John had £5
He gave 25% of it to charity.
How much did he give?

£

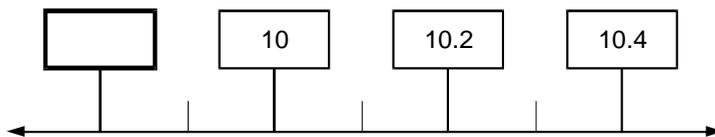
1 mark

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.



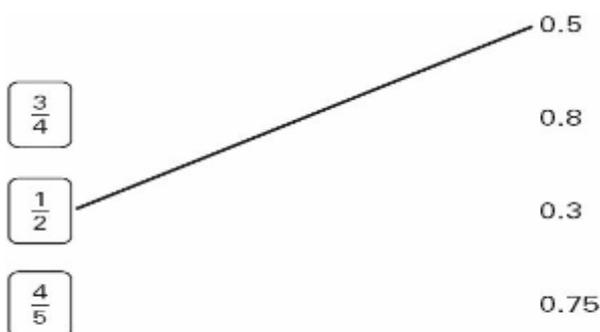
How much will the larger bottle hold?

ml

1 mark

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

One has been done for you.



0.4 1 mark

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

1 mark

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

	$\frac{4}{7}$	
$\frac{1}{2}$		$\frac{2}{8}$
$\frac{2}{5}$		$\frac{1}{3}$
	$\frac{1}{4}$	

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.

rounded to the nearest
whole number is
—————→

6.01 —————→ 6

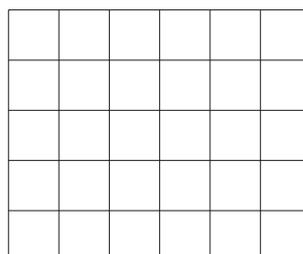
9.51 —————→

7.75 —————→

1 mark

25. Here is a grid made of squares.

Shade **10%** of this grid.



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

$$\boxed{} + \boxed{} + \boxed{} = 10.5$$

1 mark

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

1 mark

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

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

1 mark

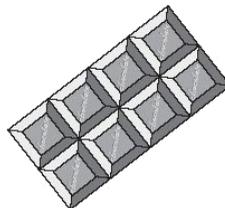
29. Put a tick (✓) in **each row** to complete this table.

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.

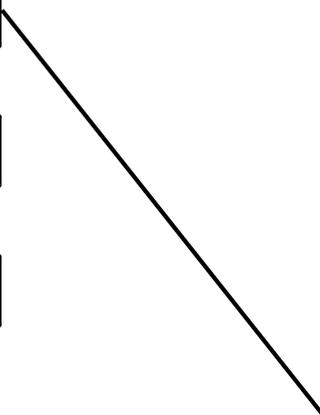
What **fraction** of the chocolate bar **remains**?

1 mark

31. Match each box to the correct number.

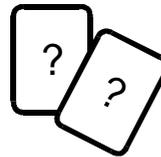
One has been done for you.

$\frac{1}{2}$ of 30		45
$\frac{1}{3}$ of 75		40
$\frac{1}{5}$ of 150		35
		30
		25
		20
		15



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.

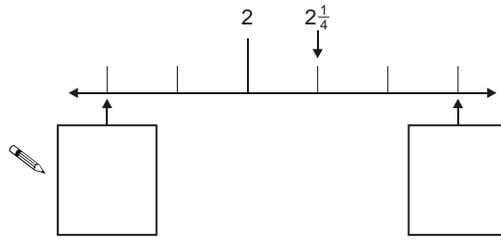


$\frac{\square}{\square}$	or	$\frac{\square}{\square}$
---------------------------	----	---------------------------

2 marks

33. Here is part of a number line.

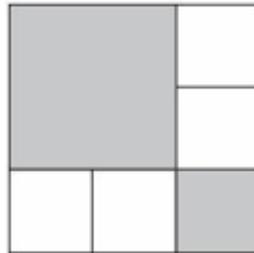
Write in the two missing numbers.



2 marks

34. The diagram is made of squares.

What fraction of the diagram is shaded?



1 mark

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



1 mark

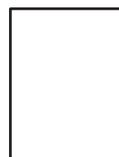
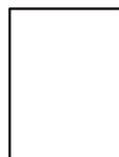
36. Write these fractions in order of size starting with the smallest.

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

$$\frac{3}{5}$$

$$\frac{9}{10}$$

$$\frac{17}{20}$$



smallest

1 mark

37. Write these numbers in order.

One has been done for you.

3.03	3.23		largest
	3.3		
3	3.2	3	smallest

1 mark

38. Write in the missing numbers.

30% of 60 is

1 mark

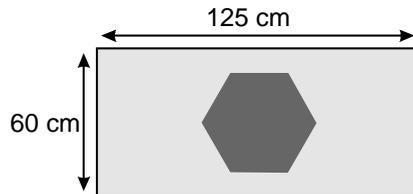
30% of is 60

1 mark

39. Calculate 31.6×7

1 mark

40. Here is a flag.



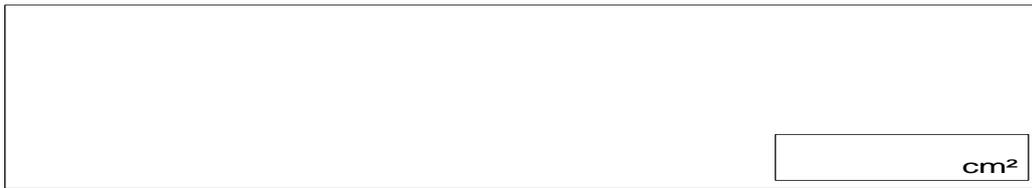
What is the **area** of **this flag**?

cm²

2 marks

20% of the flag is blue.

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



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

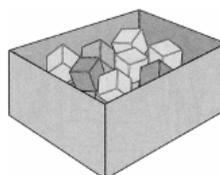
44. Calculate **5%** of **£3600**

 £

1 mark

45. There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,



four of the cubes are blue
and the rest are green.

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

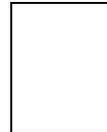


2 marks

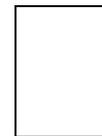
One more **blue** cube is put into the box.

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

1 mark



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

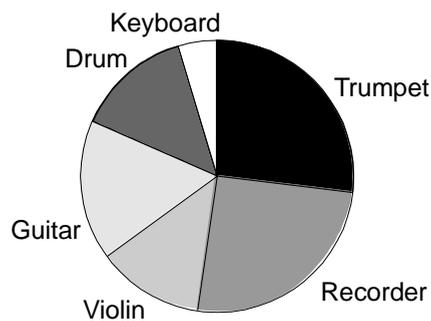


Explain how you know.

.....
.....

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**.

1 mark

Explain how you decided.

.....

.....

1 mark

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

How many children is this?

2 marks

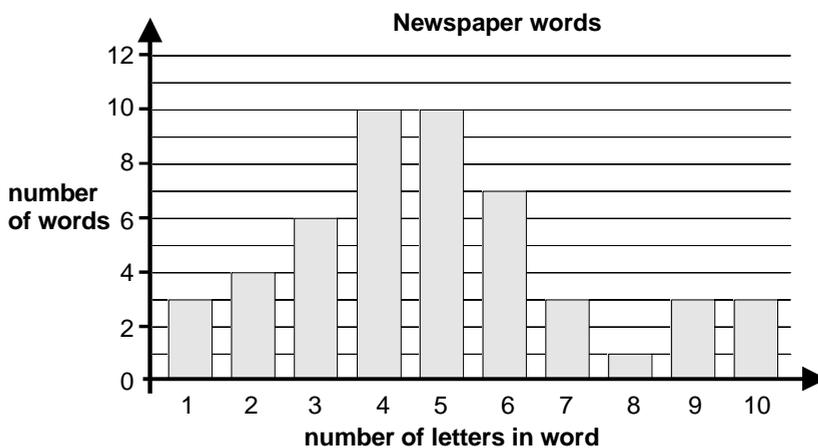
48. Calculate $\frac{3}{8}$ of **980**

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,

**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 $\frac{5}{12}$ of **378**

1 mark

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?



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





2 marks

52. Calculate 24% of 525



1 mark