Key Stage 1

Mathematics

Reasoning: Test 2
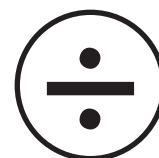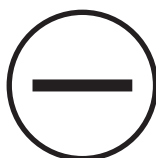
Name	
Date	

$+$ $-$ $\times$ $\div$

/ 35
total marks

Key Stage 1 Maths Reasoning: Test 2

1.

2.

cm

3.

| 34 | 43 | 78 | 94 | 27 | 42 |

4.

5.

m

35
total marks

twinkl
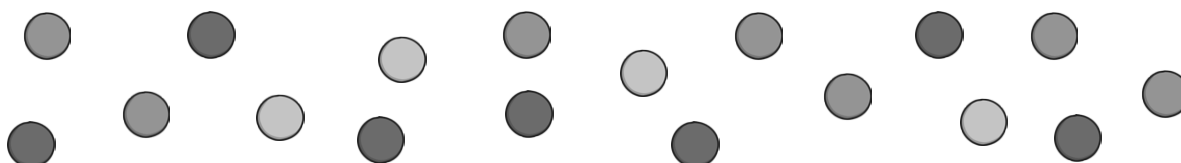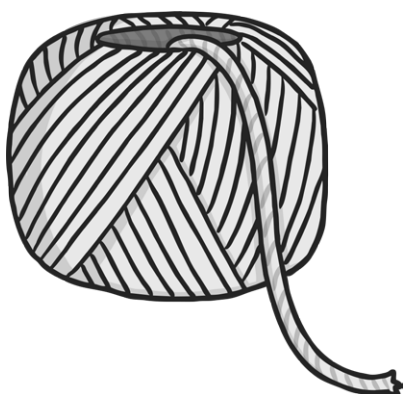
Total for
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1 mark
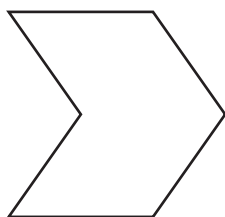
1 mark

1 mark

1 mark

1 mark

Total for
this page

6. Write the name of these 2D shapes.

_____   _____

7. Write a calculation to find the answer to the question: "What number is the difference between fifty-four and forty-seven?"
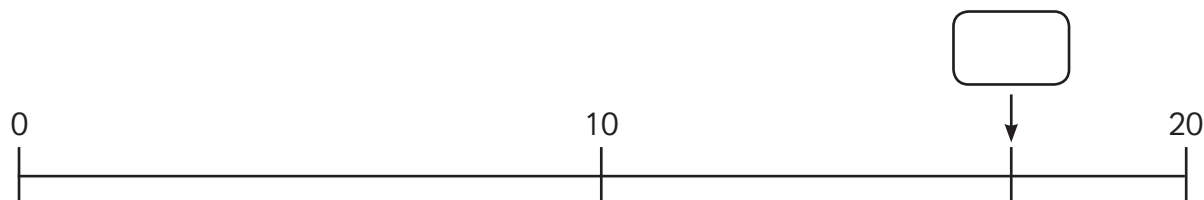
8. Continue this sequence:

74	76	78			

9. What number is shown by the arrow on this number line?

0   10   20

10. Nita has calculated that 34 − 13 = 21. Write an inverse calculation to check the answer.

11. How many hours are in one day?

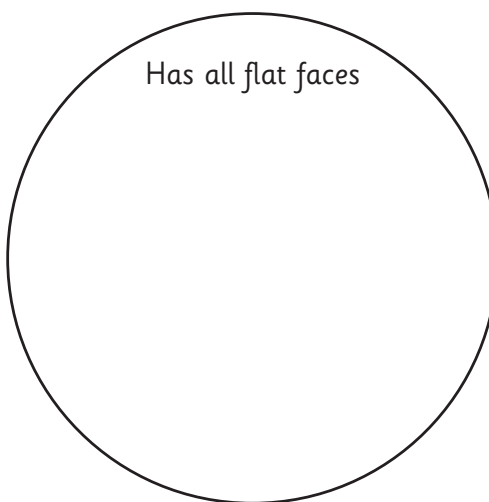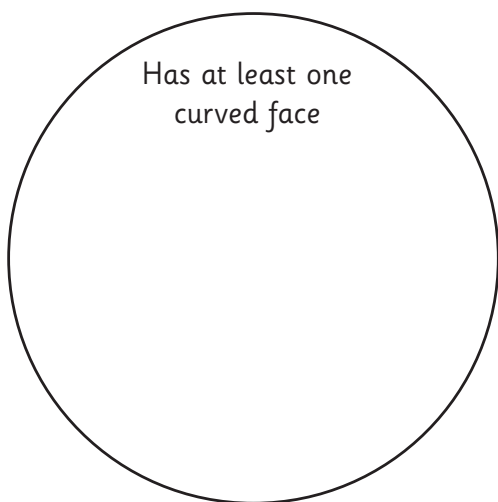**12.** Joe and Nita go to the school office to collect some pencils. Joe has 40 pencils and Nita has 60 pencils. Which addition fact using 1-digit numbers would you use to calculate the answer?

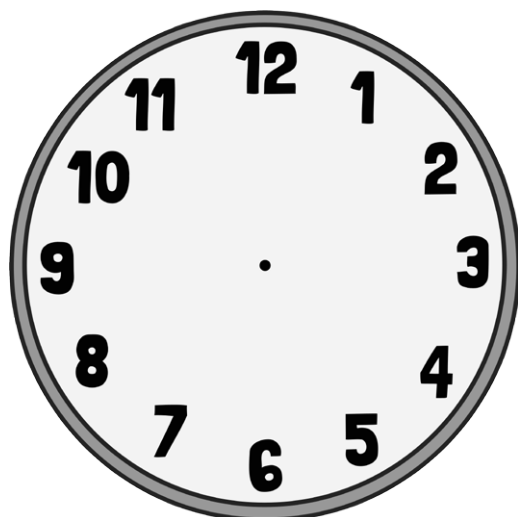**13.** Here are some everyday 3D objects. Sort the shapes into the two groups. Draw an arrow from each object to the correct group.

Has at least one curved face

Has all flat faces
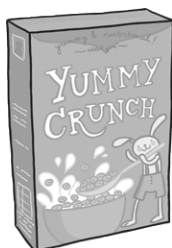
14. Draw hands on this clock to show the time half past two.

15. Joe and Nita jump from a standing position in a PE lesson. They measure their longest jump. Joe jumps 76cm Nita jumps 67cm Using one of these symbols, < or >, compare the measurements.

Joe jumps 76cm

Nita jumps 67cm

Joe		Nita

16.

a) Joe has the following coins. How much money does he have?

Nita has these coins. How much money does she have?

b) They put their money together. How much do they have together?

17. Here is a triangle. Shade $\frac{1}{3}$ of the triangle.
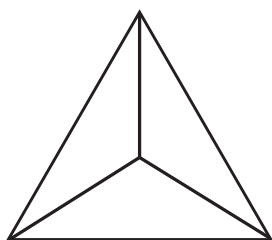
18. Joe is buying some apples. How much do the apples weigh?

0g
500g
100g   400g
200g   300g

[_____] g
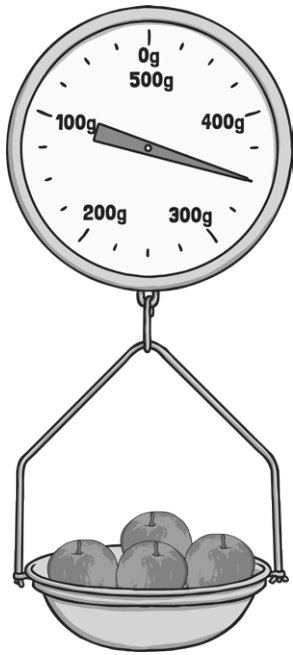
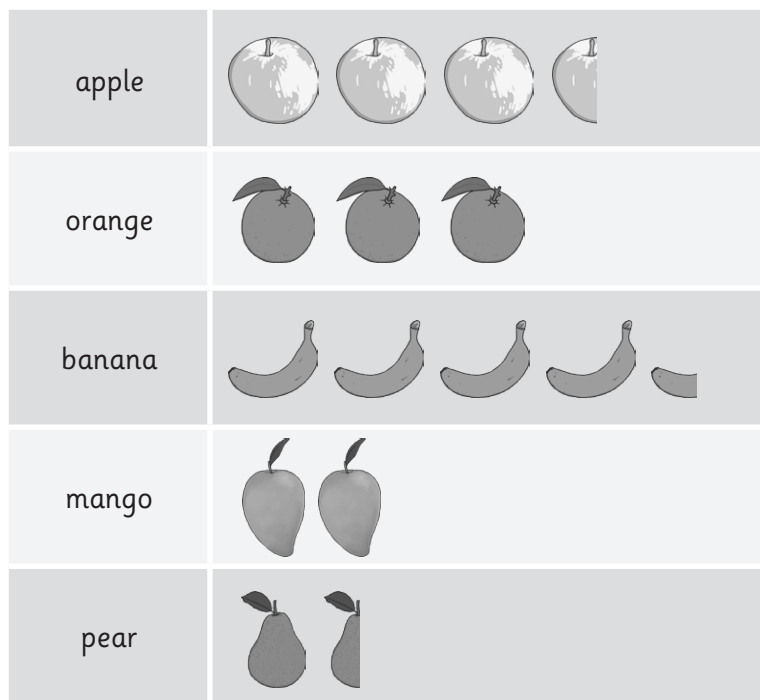**19.** A packet of chocolate biscuits contains 5 biscuits. Nita buys 6 packets of biscuits. How many biscuits does Nita buy?

Milk Chocolate
Digestives

[_____]

20. A class of children chose their favourite fruit. This pictogram shows the results. Each piece of fruit represents **2** children.

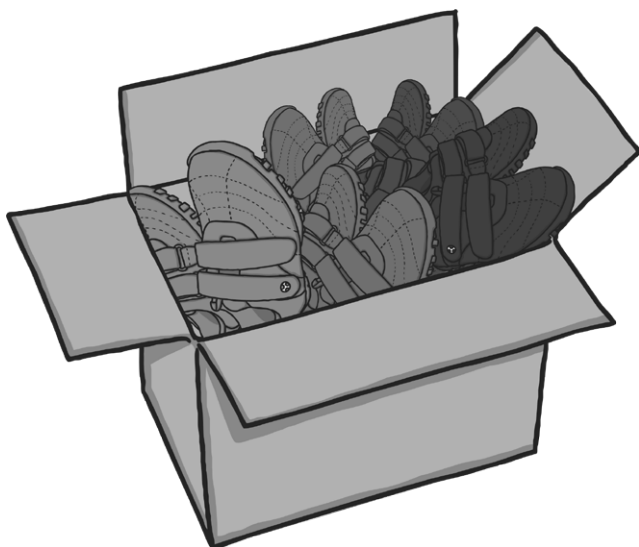| apple	
orange	
banana	
mango	
pear	

a) Which was the favourite fruit and how many children chose it as their favourite?

favourite fruit [　　　]

children [　　　]

b) How many more children chose apples as their favourite fruit than pears?

[　　　]

21. Joe counts all his shoes. He has 18 shoes. How many pairs of shoes does Joe have?

[　　　]

22. Fill in the missing numerals to complete this calculation.

1 ☐ x ☐ = 70

23. Using a ruler to draw a line of symmetry on this shape.

24. There are twenty colouring pencils on Nita's table. She is asked to share the pencils between the five children on her table.

Circle the calculation that will give the answer.

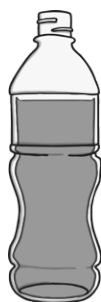20 ÷ 5   5 ÷ 20   4 ÷ 20   20 ÷ 4

25. Joe has 50p. He buys a small drink for 24p.

His mother then gives him 45p.

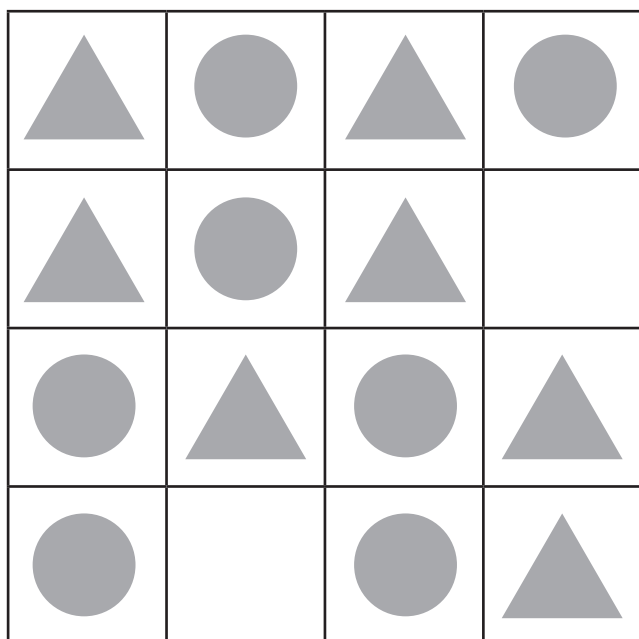How much does he have now?

26. Use the digit cards 2, 5 and 8 to complete this addition calculation.

| 2 | 5 | 8 |

⬚⬚ + ⬚ = 60

27. Complete this pattern.

28. Order the following numbers from smallest to largest.

| 34 | 43 | 78 | 94 | 27 | 42 |

smallest   largest

29. Complete these fractions so that they are equivalent.

$$\frac{1}{2} = \frac{\quad}{4}$$

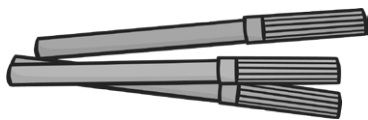**30.** Joe collects 9 five pence pieces. He uses them to buy a toy car for 32p.

How much does Joe have left?

31. Nita and Joe collect all the felt tip pens in a classroom. Nita collects 43 pens and Joe collects 38 pens.

Write the calculation you would use to work out how many pens Nita and Joe collected altogether.
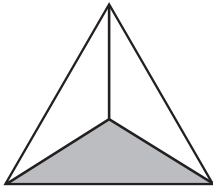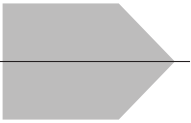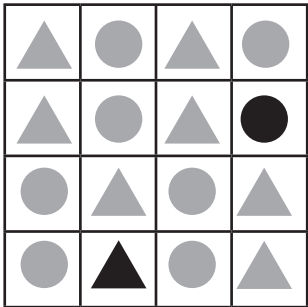
question	answer	marks	notes
1.			
	Ring around 9 balls	1	Allow 0.1cm error for each. Both correct for 1 mark.
2.			
	Estimate from 9cm to 14cm	1	
3.			
	Circle 43 and 42	1	Both circled and no others for the mark.
4.			
	69	1	
5.			
	14m	1	Accept any digits in the whole number places.
6.			
	Rectangle and Hexagon	1	Both answers must be given for a point. Allow misspellings as long as intention is clear.
7.			
	54 - 47	1	
8.			
	74 76 78 **80** **82** **84**	1	All 3 numbers for the mark.
9.			
	Answers between and including 16 to 18	1	
10.			
	13 + 21 or 21 + 13	1	
11.			
	24	1	

question	answer	marks	notes
12.			
	4 + 6 = 10	1	
13.			
	Curved – tin and cone **Flat** – cereal packet and chocolate bar	1	
14.			
		1	Hour hand must be between 2 and 3 for the mark.
15.			
	Joe > Nita	1	
16.			
a	Joe 43p Nita 36p	2	1 mark for each correct answer.
b	79p	1	
17.			
		1	Shading need not be accurate but the intention must be clear.
18.			
	350g	1	Allow 340-360g
19.			
	30 biscuits	1	All 3 numbers for the mark.

question		answer	marks	notes
20.				
	a	Banana 9 children	2	
	b	4 children	1	
21.				
		9 pairs	1	
22.				
		10 x 7 = 70 **or** 14 x 5 = 70	1	
23.				
			1	
24.				
		20 ÷ 5	1	
25.				
		50 − 24 = 26 26 + 45 = 71p	2	1 mark for correct calculations with only 1 mistake.
26.				
		52 + 8 58 + 2	1	
27.				
			1	

question	answer	marks	notes
28.			
	27, 34, 42, 43, 78, 94	1	
29.			
	$\frac{2}{4}$	1	
30.			
	9 x 5 = 45 45 − 32 = 13p	1	1 mark for correct calculations with only 1 mistake.
31.			
	43 + 38	1	Award mark even if the addition is calculated incorrectly.