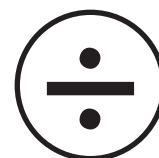
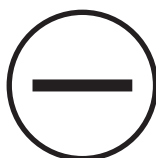


Key Stage 2

Mathematics

Reasoning: Pack 1 Test 1a

Name	
Date	



total marks

Name:

Date:

Key Stage 2 Maths Reasoning: Pack 1 Test 1a



1. Order the following numbers from smallest to largest: 26 662.62, 22622.26, 22626.26, 26 262.62, 22 666.66

--	--	--	--	--

smallest largest



1 mark

2. Draw a quadrilateral with 1 line of symmetry and a quadrilateral with 2 lines of symmetry.



2 marks

3. Complete these calculations:

$$56 \times \quad = 56$$

$$56 \times \quad = 0$$

$$56 \div \quad = 56$$



1 mark

4. Write the decimal equivalents to match the following fractions.

$$\frac{1}{4} = \boxed{}$$

$$\frac{1}{2} = \boxed{}$$

$$\frac{3}{4} = \boxed{}$$

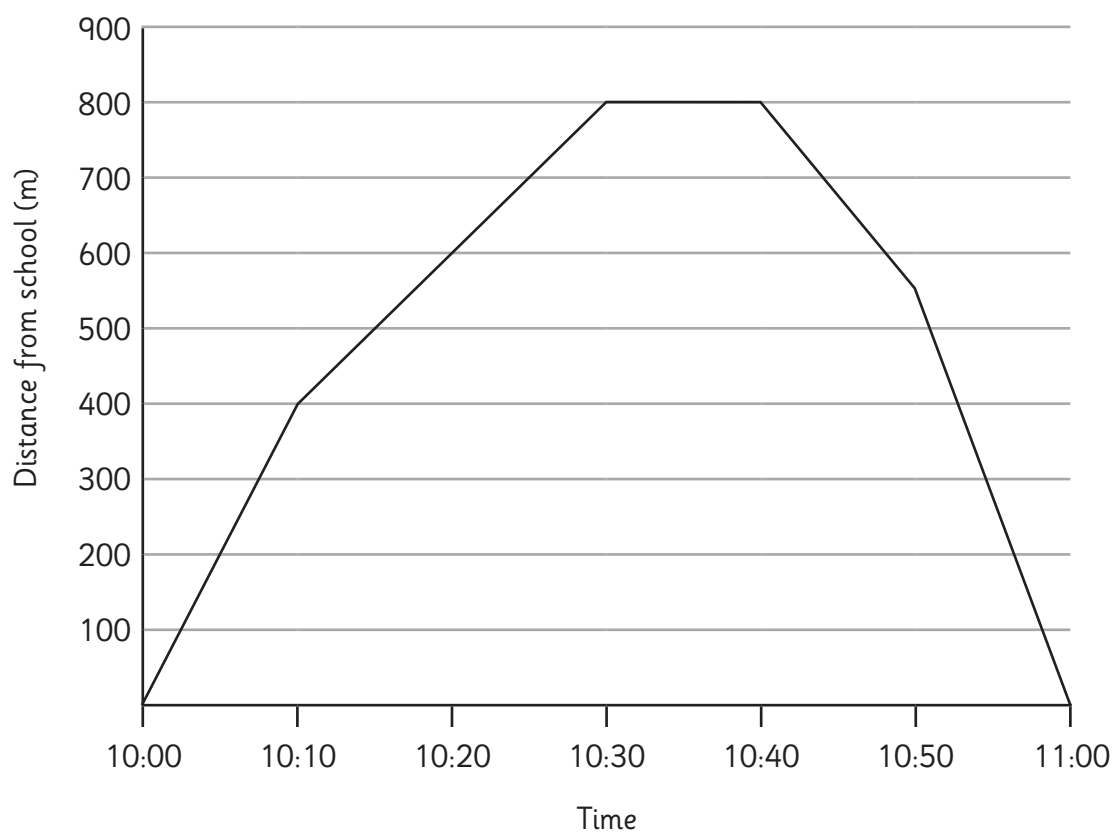


1 mark



Total for
this page

5. Children in a class walk around their local area. The graph shows how far they had travelled from school during the visit.



- a) For how long are the children between 300m and 600m from school?



1 mark

- b) Draw a circle on the graph to indicate when the children are walking the fastest.



1 mark

6.

- a) Draw lines 10.8cm and 53mm long.



1 mark

- b) Write the difference in size between the 2 lines.



1 mark



Total for this page

7. Continue the following linear sequence:

$$0.007, \left(\quad \right), \left(\quad \right), 0.028, \left(\quad \right), \left(\quad \right)$$

8. A shop sells T-shirts and shorts for the following prices:



A mother buys 3 T-shirts and a pair of shorts for each of her 2 children. She pays with a £20 and £10 note. Her change is given in the fewest coins possible. How much change would she be given?

A blank grid with a 10x10 structure. A rectangle is drawn in the bottom right corner, spanning 4 columns and 2 rows.

With what coins could she be given as change?

--

9. Complete this subtraction calculation:

$$\begin{array}{r} 6 \square 1 \square \\ - \square 2 \square 4 \\ \hline 2738 \end{array}$$

10. James has to be home by 4:30pm. He is 35 minutes late. His watch is 10 minutes slow.
Write the time on his watch when he arrives home. Write the time in 24-hour time.



11. The number p is 20 more than the number q .

Write 2 algebraic expressions to show the relationship between p and q , using different operations.



12. Write all the factors of 96:



13. Draw a triangle with angles 43° and 76° and a line of length 96mm.

Use a ruler and a protractor or angle measurer.



2 marks

2 marks

2 marks

**Total for
this page**

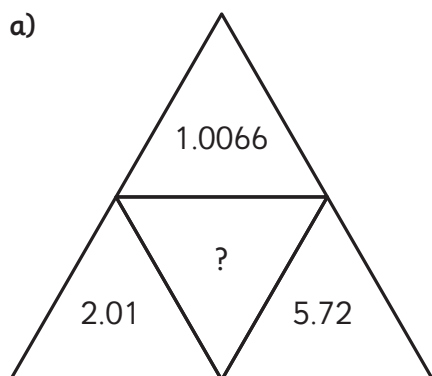
16. Draw 3 different nets to make a triangular prism.



2 marks

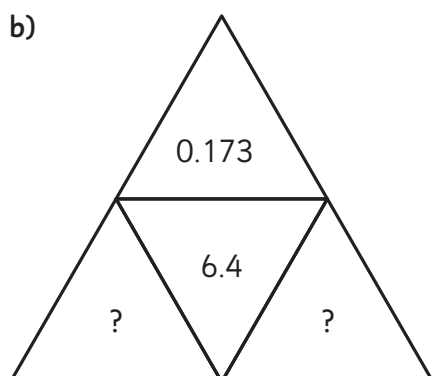
17. Complete the triangles so that the number in the centre is the sum of the numbers on the outside.

a)



1 mark

b)



1 mark

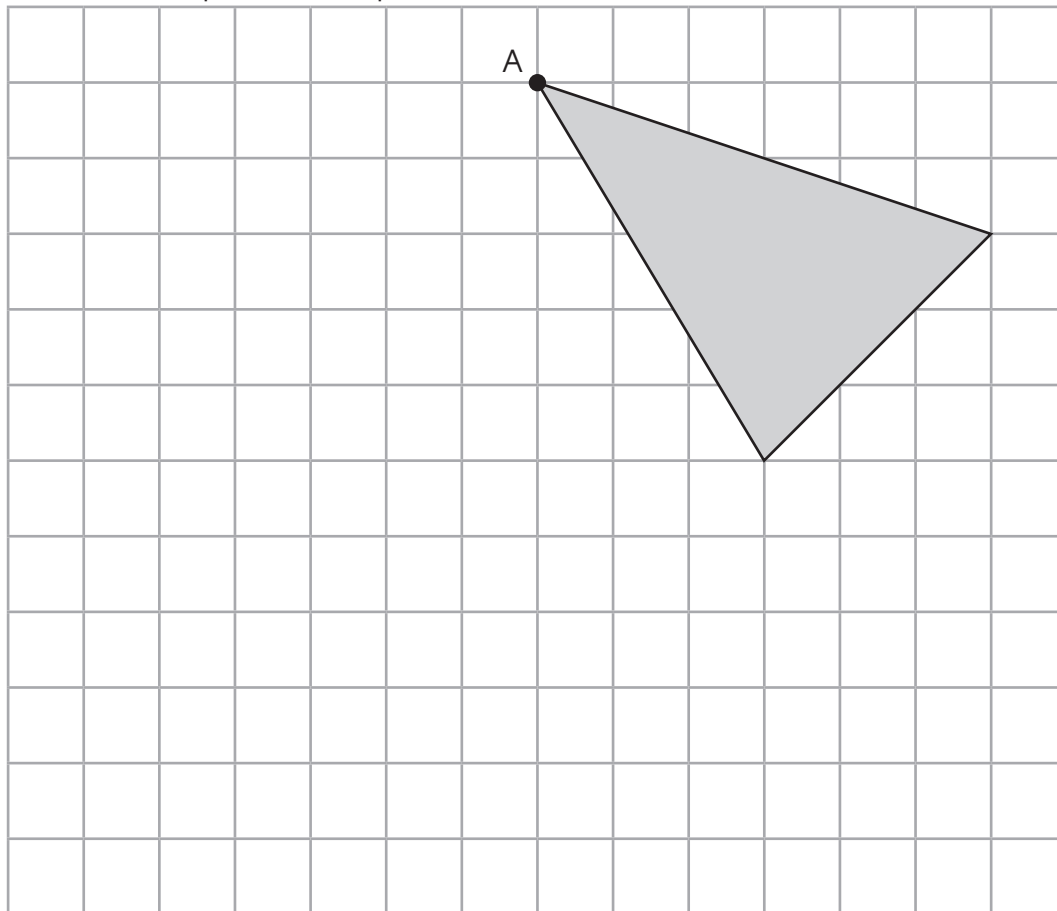


Total for this page

18. Here is a shaded shape on a grid.

The shape is translated so that point A moves to point B, which is 4cm down and 5cm left of A.

Draw the shape in its new position.



2 marks

19. Match the number to which 347 500 has been rounded.

348 000 is 347 500 to the nearest 500.

347 500 is 347 500 to the nearest 10 000.

350 000 is 347 500 to the nearest 1 000.



2 marks



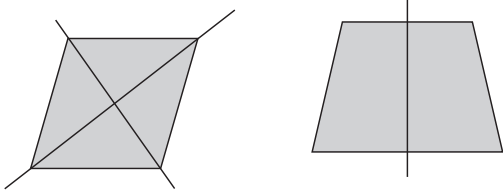
Total for this page

2 marks

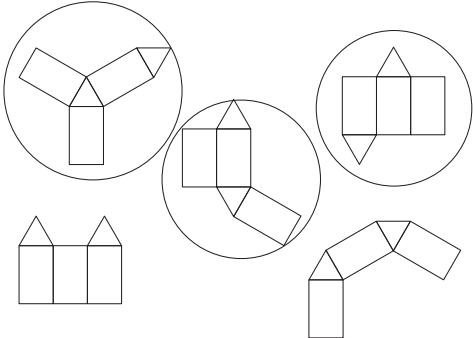
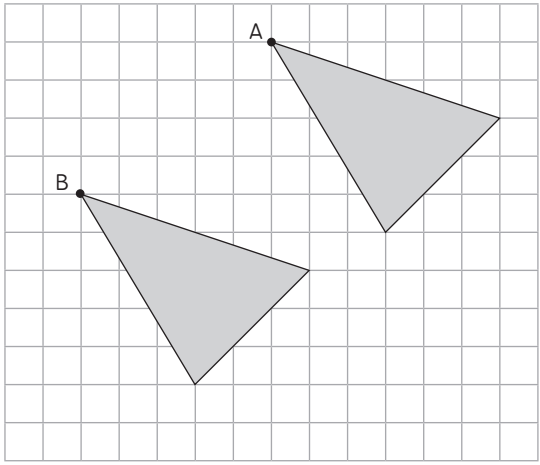
[illegible]

2 marks

Total for
this page

question	answer	marks	notes
1.			
	22 622.26, 22 626.26, 22 666.66, 26 262.62, 26 662.62	1	
2.			
		2	
3.			
	$56 \times 1 = 56$ $56 \times 0 = 0$ $56 \div 1 = 56$	1	1 mark for all correct.
4.			
	0.125 1.5 1.75	1	
5.			
a	Answers between 16 and 18 minutes inclusive.	1	10:08 to 10:20 = 12 minutes 10:48 to 10:53 = 5 minutes $12 + 5 = 17$ minutes
b	The last part of the journey coming home.	1	The ring should indicate the majority of the line between 10:50 and 11:00.
6.			
a	Correct lines drawn	1	Allow 1mm error on each.
b	5.5cm or 55 mm	1	
7.			
	0.014, 0.021, ... , 0.035, 0.042	1	

question	answer	marks	notes
8.			
	50p coin and a 2p coin	2	2 marks for correct answer 1 mark for correctly calculating the change as 52p but incorrect coins. 1 mark for 1 error in calculation but gives answer using the least coins for that amount.
9.			
	$\begin{array}{r} 6012 \\ 3274 \\ \hline 2738 \end{array}$	2	1 mark for 4 digits correct.
10.			
	16:55	1	
11.			
	$\begin{array}{l} p = q + 20 \\ q = p - 20 \end{array}$	2	1 mark for 2 addition ($p=20+q$ and $p=q+20$) or subtraction.
12.			
	1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96	1	
13.			
	See triangles at end	2	
14.			
	4 balls of string	2	$256 \times 0.4\text{m} = 102.4\text{m}$, 1 mark for incorrect answer due to one error of calculation.
15.			
	0.925 and 0.075	2	2 marks for both numbers correct. 1 mark for correct method but 1 calculation mistake.

question	answer	marks	notes
16.			
	<p>Possible answers include:</p> 	2	2 marks for 3 correct. 1 mark for 2 correct.
17.			
a	8.7366	1	
b	2 numbers that add up to 6.227	1	
18.			
		2	2 marks for correct answer. 1 mark if triangle's corners are at B and one other correctly placed.
19.			
	348 000 is 347500 to the nearest 500 347 500 is 347500 to the nearest 10 000 350 000 is 347500 to the nearest 1000	2	2 marks for all correct. 1 mark for 1 correct.
20.			
	3, 7 and 10	2	2 marks for a correct answer. 1 mark for a set of numbers that correctly meets 1 criteria.

question	answer	marks	notes
21.			
	2 bags	2	2 marks for correct answer. 1 mark for incorrect answer where it is calculated that $8 \frac{1}{3}$ times the recipe is required.
		Total 35	

