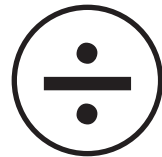
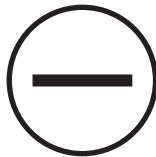


Key Stage 2

Mathematics

Reasoning: Pack 1 Test 1a

Name	
Date	



35

total marks

Name:

Date:

Key Stage 2 Maths Reasoning: Pack 1 Test 1a



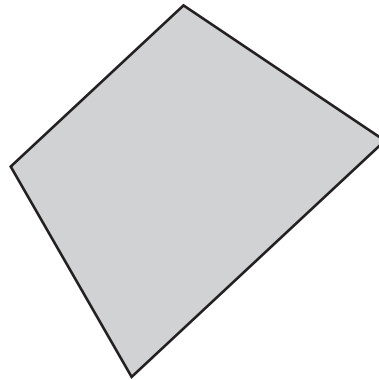
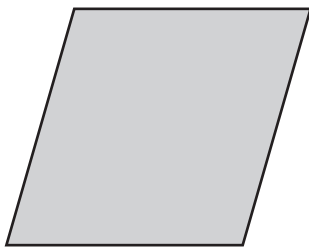
1. Order the following numbers from smallest to largest: 426, 412, 462, 416, 402

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smallest largest



2. Draw all the lines of symmetry on these quadrilaterals.



3. Draw lines to match the following calculations to the correct answers.

56×0

56

$56 \div 1$

0

56×1

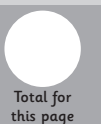


4. Write the decimal equivalents to match the following fractions.

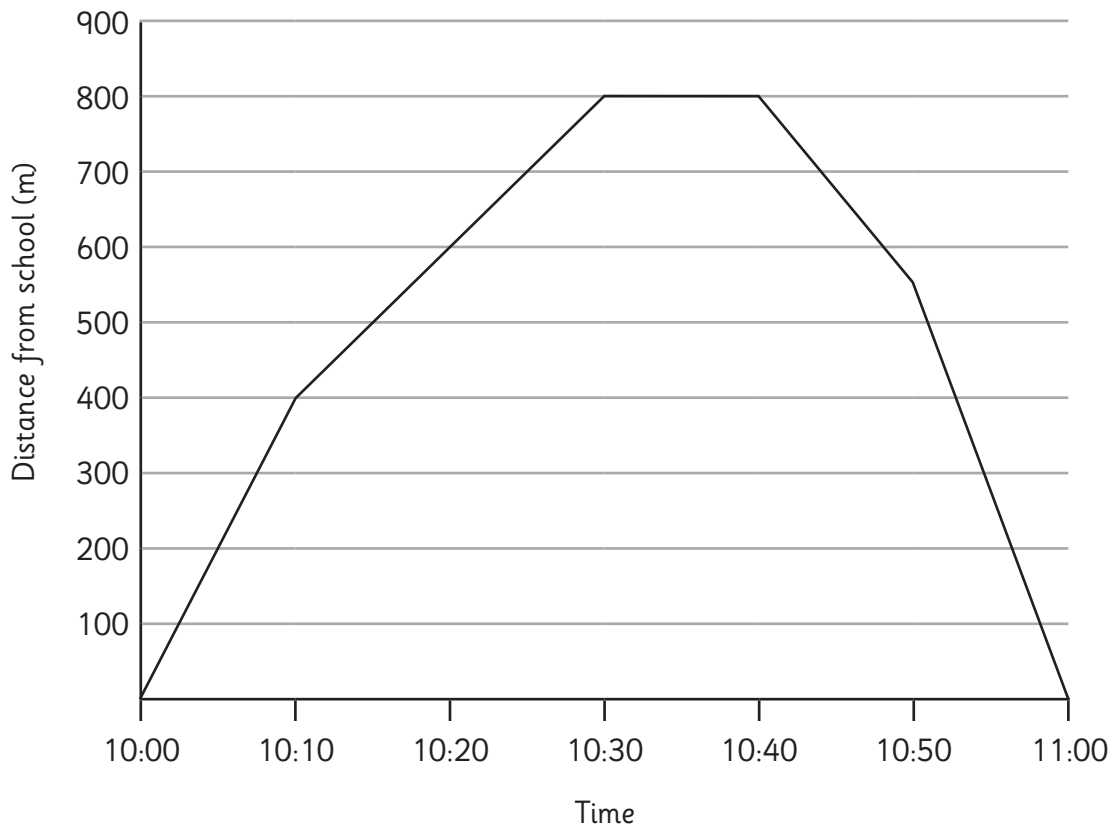
$\frac{1}{4} =$

$\frac{1}{2} =$

$\frac{3}{4} =$



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



a) How far were the children from their school at 10:20?



b) For how long are the children at least 500m away from school?



6.

a) Accurately measure these 2 lines.



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

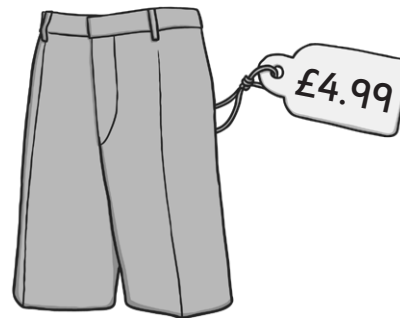


7. Continue the following sequence:

0.006, 0.012, 0.018, , ,

1 mark

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



A mother buys 3 T-shirts and a pair of shorts for her son. She pays with a £10 and a £5 note. With what coins could she be given change?

2 marks

9. Complete this subtraction calculation:

$$\begin{array}{r} 6 \quad 0 \quad 1 \quad 2 \\ - \square \quad 2 \quad \square \quad 4 \\ \hline 2 \quad 7 \quad 3 \quad 8 \end{array}$$

2 marks

Total for this page

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

1 mark

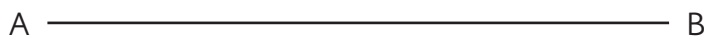
11. The number p is 20 more than the number q .
Using algebra, write the relationship between p and q .

2 marks

12. Write all the factors of 24:

1 mark

13. Use the following line to draw an angle of 34° at point A.
Use a ruler and a protractor or angle measurer.



1 mark

Total for this page

14. A teacher needs 70 lengths of string cut to 40cm each. If balls of string are 10m long, how many balls will be needed.

A 10x10 grid with a rectangular box on the right side, spanning 4 units wide and 2 units high.

2 marks

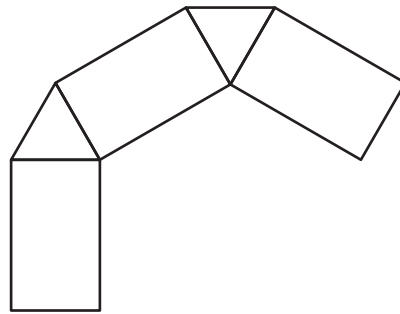
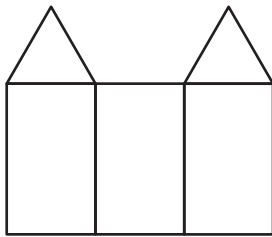
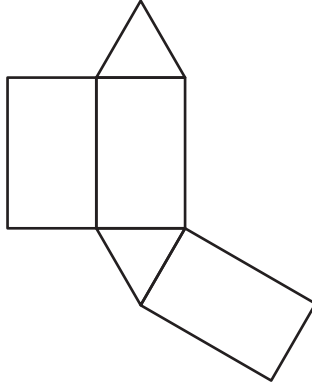
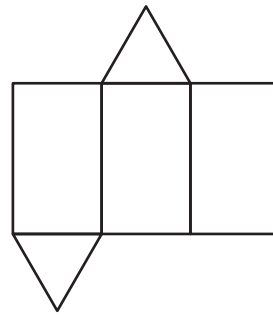
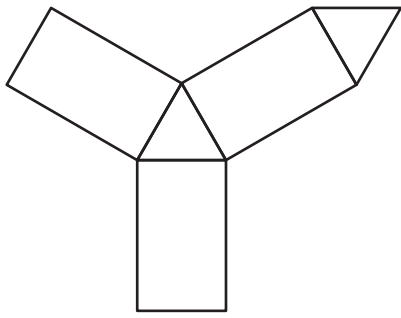
15. Two numbers have a difference of 0.7 and a sum of 1. What are the numbers?

A 10x10 grid with a rectangular box on the right side, spanning 4 units wide and 2 units high.

2 marks

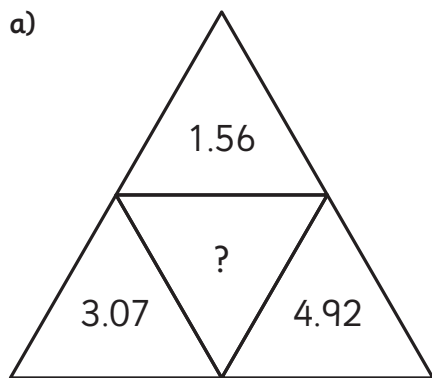
Total for this page

16. Circle the nets which will make a triangular prism.

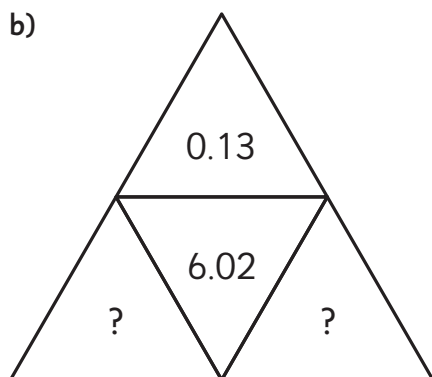


2 marks

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



1 mark



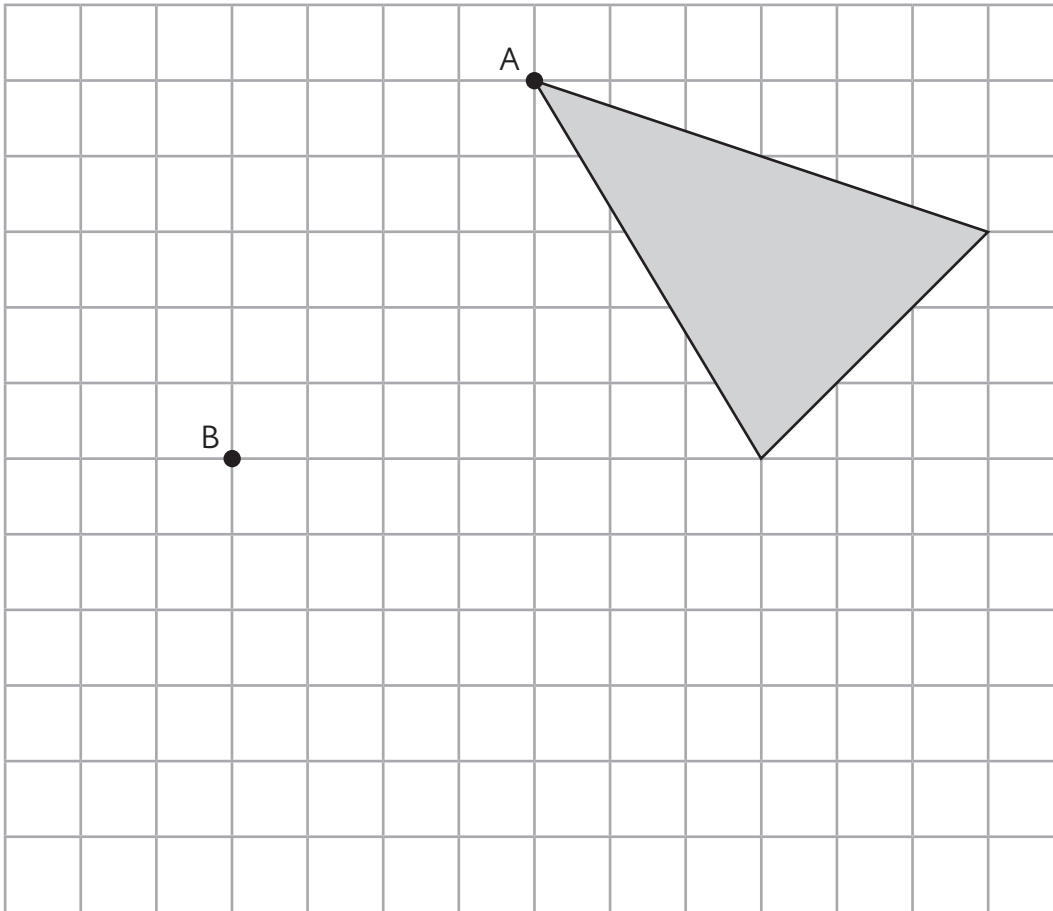
1 mark

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.

Draw the shape in its new position.



2 marks

19. Round the number 347 500 to the nearest 1000, 10 000 and 100 000.

To the nearest 1000

To the nearest 10 000

To the nearest 100 000

2 marks

Total for this page

20. Write down 3 numbers where the following are true:

The total of the 3 numbers is 20.

The product of the 3 numbers is 90.

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2 marks

21. Here are the ingredients for raspberry ripple ice cream.

250g raspberries

225g caster sugar

2 large eggs

4 large egg yolks

600ml double cream

A mother has 5 litres of cream to make ice cream for a party. Sugar comes in 1kg bags. How many bags of sugar will be needed?

2 marks

Total for this page

question	answer	marks	notes
1.			
	402, 412, 416, 426, 462	1	
2.			
		2	
3.			
		1	1 mark for all correct.
4.			
	0.25 0.5 0.75	1	
5.			
a	600m	1	
b	Answers between 36 and 40 minutes inclusive.	1	
6.			
a	10.3 cm or 103 mm 4.6 cm or 46 mm	1	Allow 1mm error on each.
b	5.7cm or 57 mm	1	Allow correct calculation based on incorrect answers to 6a.
7.			
	0.024, 0.03, 0.036	1	Allow 0.030.

question	answer	marks	notes
8.			
	Any combination of coins to make 26p	2	2 marks for correct answer 1 mark for correctly calculating the change as 26p 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 per digit
10.			
	17:05	1	
11.			
	$p = q + 20$ or $q = p - 20$	2	1 mark for an incorrect expression that uses p , q , 20 , $=$ and either $+$ or $-$. e.g. $q = p + 20$
12.			
	1, 2, 3, 4, 6, 8, 12, 24	1	
13.			
	Allow $32^\circ - 36^\circ$ (See end of answers for an accurate answer of the angle)	2	
14.			
	3 balls	2	$(40 \text{ cm} \times 70 = 2800 \text{ cm} = 28 \text{ m})$ $3 \text{ balls} = 30 \text{ m}$ 1 mark for incorrect answer due to one error of calculation.
15.			
	0.85 and 0.15	2	2 marks for both numbers correct. 1 mark for correct method but 1 calculation mistake.

question	answer	marks	notes
16.			
		2	2 marks for 3 correct. 1 mark for 2 correct and none incorrect.
17.			
a	9.55	1	
b	2 numbers that add up to 5.89	1	
18.			
		2	2 marks for correct answer. 1 mark if triangle's corners are at B and one other correctly placed.
19.			
	348 000 350 000 300 000	2	2 marks for all correct. 1 mark for 2 correct.
20.			
	2, 3 and 15 or 1, 9 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	