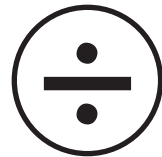
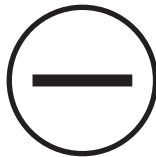


# Key Stage 2

## Mathematics

### Reasoning: Pack 1 Test 1a

Name	
Date	



35

total marks

Name:

Date:

## Key Stage 2 Maths Reasoning: Pack 1 Test 1a



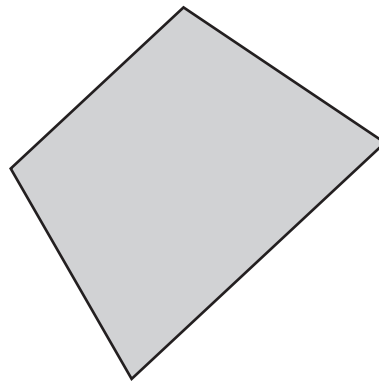
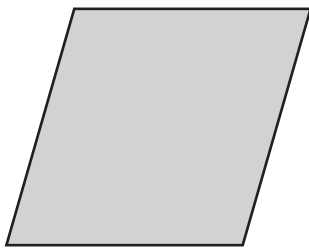
1. Order the following numbers from smallest to largest: 426, 412, 462, 416, 402

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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.

$56 \times 0$

$56$

$56 \div 1$

$0$

$56 \times 1$

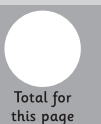


4. Write the decimal equivalents to match the following fractions.

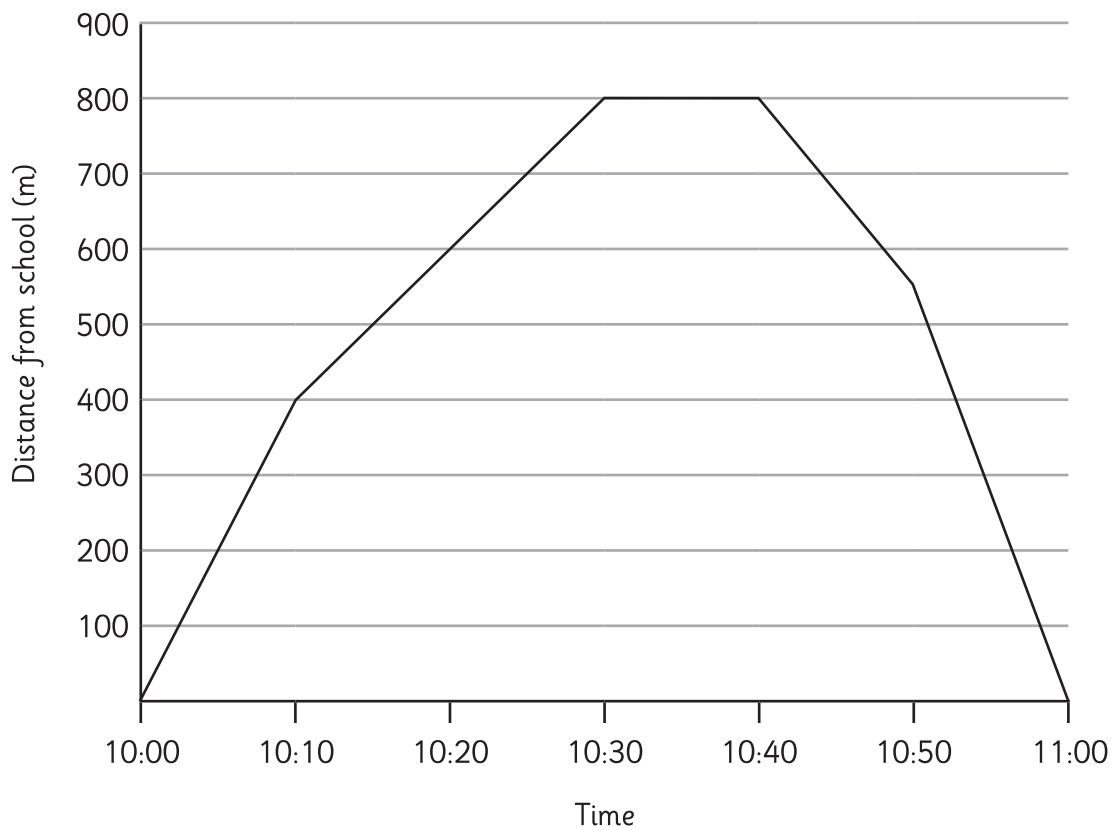
$\frac{1}{4} =$

$\frac{1}{2} =$

$\frac{3}{4} =$



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



a) For how long are the children more than 500m from school?

1 mark

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

1 mark

6.

a) Accurately measure these 2 lines.

\_\_\_\_\_

\_\_\_\_\_

1 mark

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

1 mark

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  $q$ .

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

2 marks

12. Write all the factors of 24:

1 mark

13. Use the following line to draw an angle of  $34^\circ$  at point A.

Use a ruler and a protractor or angle measurer.

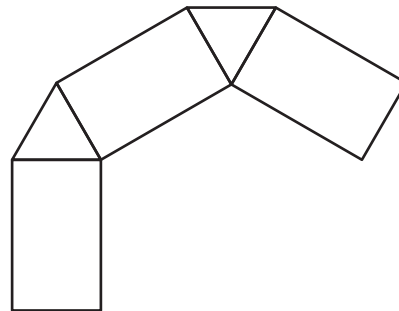
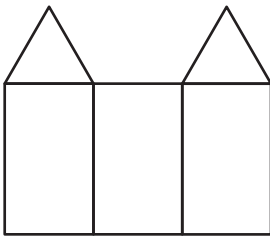
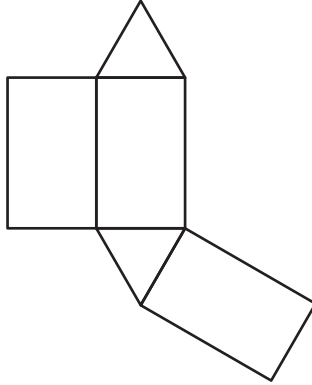
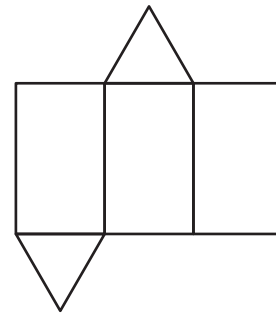
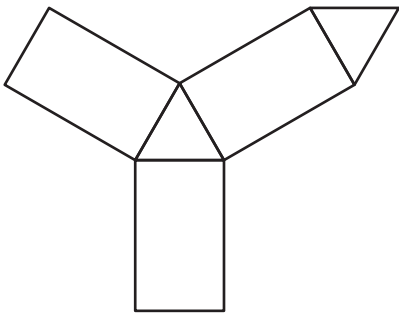


1 mark

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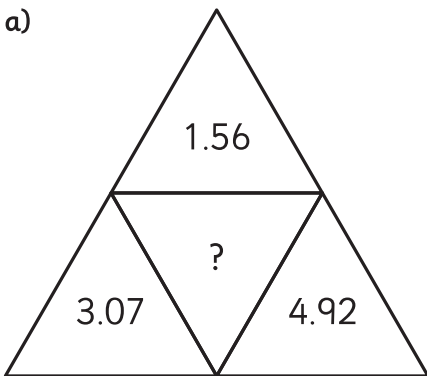
16. Circle the nets which will make a triangular prism.



2 marks

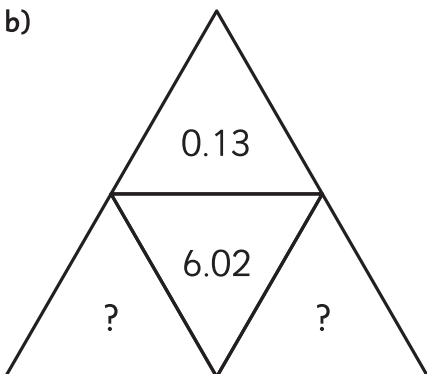
17. Complete the triangles so that the number in the centre is the sum of the numbers on the outside.

a)



1 mark

b)



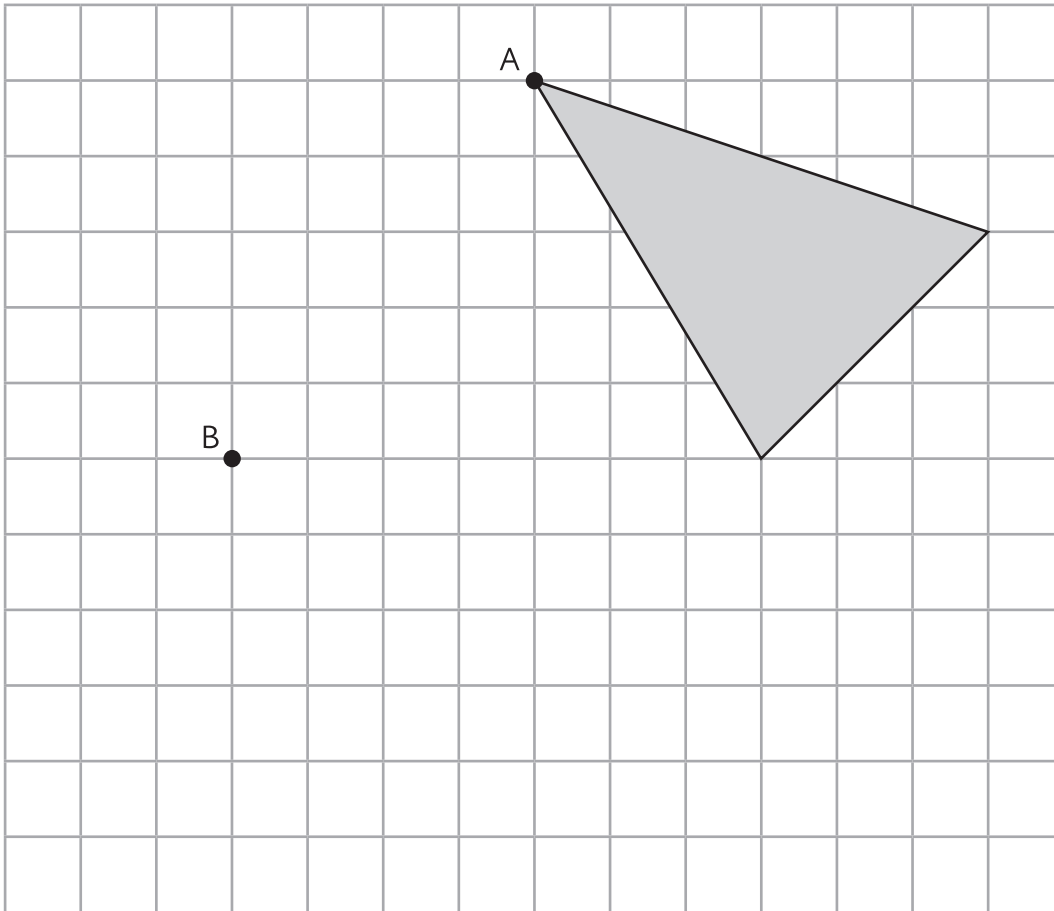
1 mark

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.

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

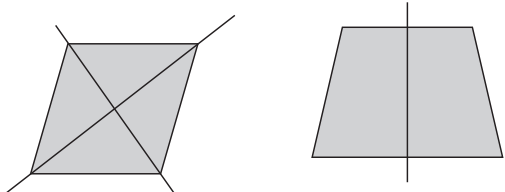
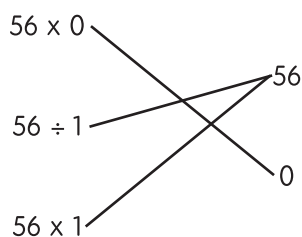
600ml double cream

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

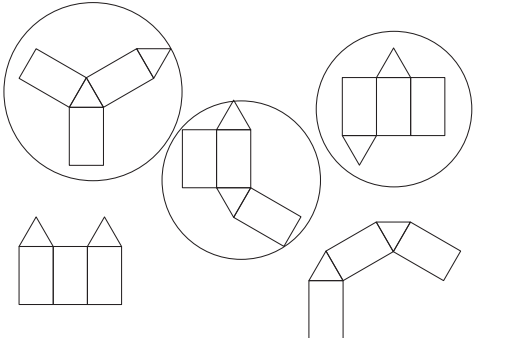
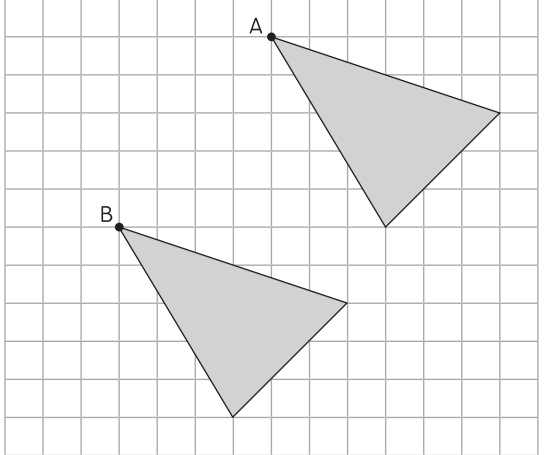
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

2 marks

Total for this page

question	answer	marks	notes
<b>1.</b>			
	402, 412, 416, 426, 462	1	
<b>2.</b>			
		2	
<b>3.</b>			
		1	1 mark for all correct.
<b>4.</b>			
	0.25 0.5 0.75	1	
<b>5.</b>			
a	Answers between 36 and 39 minutes inclusive.	1	
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.
<b>6.</b>			
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.
<b>7.</b>			
	0.024, 0.03, 0.036	1	Allow 0.030.

question	answer	marks	notes
<b>8.</b>			
	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.
<b>9.</b>			
	$\begin{array}{r} 6012 \\ 3274 \\ \hline 2738 \end{array}$	2	1 mark for 4 digits correct.
<b>10.</b>			
	1705	1	
<b>11.</b>			
	$\begin{array}{l} p = q + 20 \\ q = p - 20 \end{array}$	2	1 mark for 2 addition ( $p=20+q$ and $p=q+20$ ) or subtraction.
<b>12.</b>			
	1, 2, 3, 4, 6, 8, 12, 24	1	
<b>13.</b>			
	Allow $32^\circ - 36^\circ$ (See end of answers for an accurate answer of the angle)	2	
<b>14.</b>			
	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.
<b>15.</b>			
	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
<b>16.</b>			
		2	2 marks for 3 correct. 1 mark for 2 correct and none incorrect.
<b>17.</b>			
a	9.55	1	
b	2 numbers that add up to 5.89	1	
<b>18.</b>			
		2	2 marks for correct answer. 1 mark if triangle's corners are at B and one other correctly placed.
<b>19.</b>			
	348 000 350 000 300 000	2	2 marks for all correct. 1 mark for 2 correct.
<b>20.</b>			
	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	

