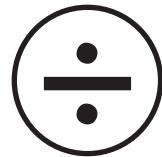
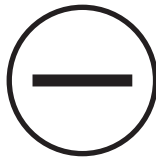


Key Stage 2

Mathematics

Reasoning: Pack 1 Test 1a

| | |
|------|--|
| Name | |
| Date | |



35

total marks

Name:

Date:

Key Stage 2 Maths Reasoning: Pack 1 Test 1a



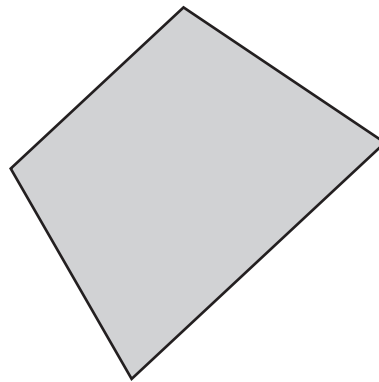
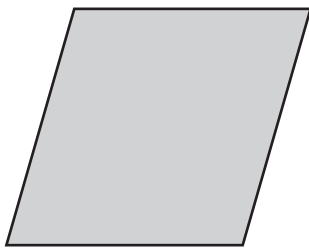
1. Order the following numbers from smallest to largest: 426, 412, 462, 416, 402

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

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

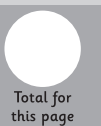


4. Write the decimal equivalents to match the following fractions.

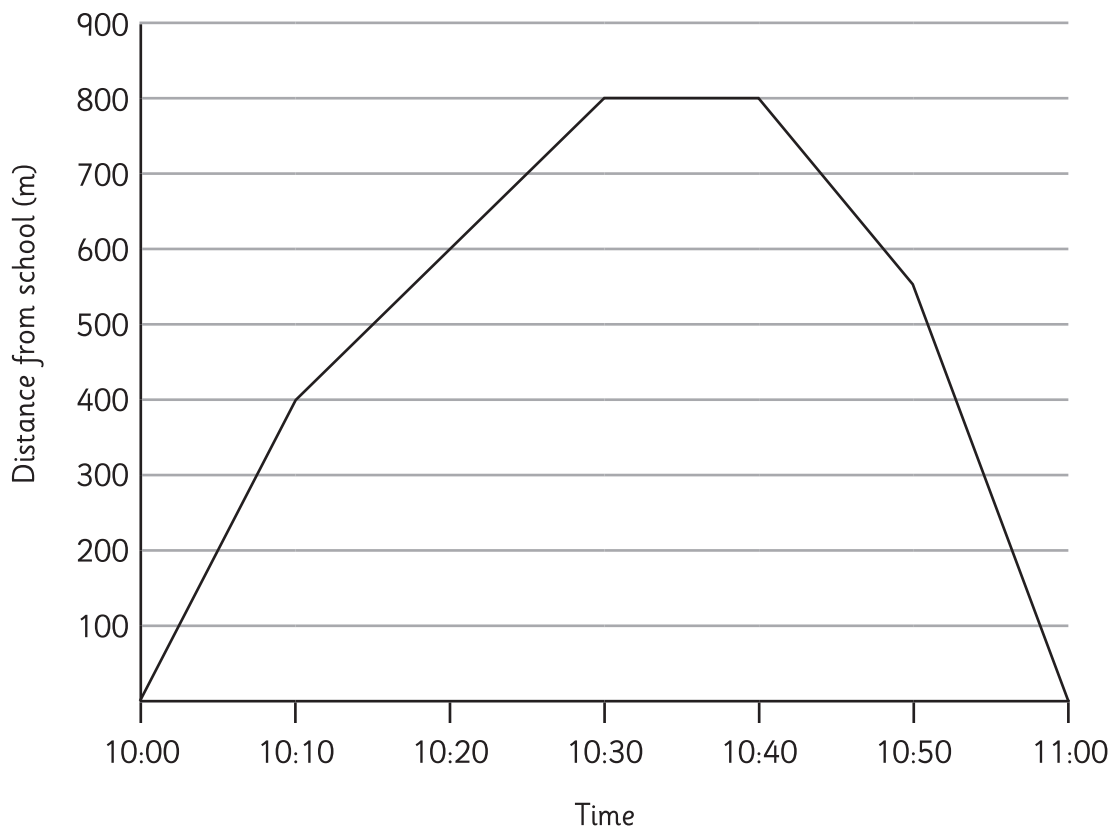
$\frac{1}{4} =$

$\frac{1}{2} =$

$\frac{3}{4} =$



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?

1 mark

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

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 .
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 40 cm each. If balls of string are 10 m 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.

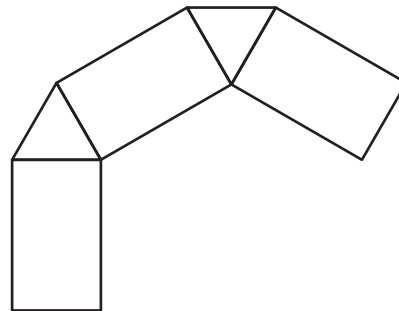
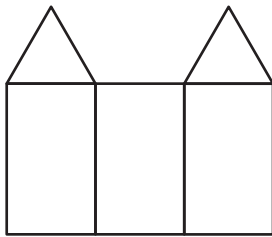
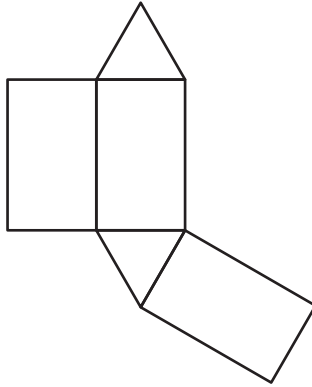
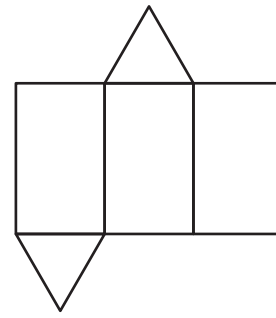
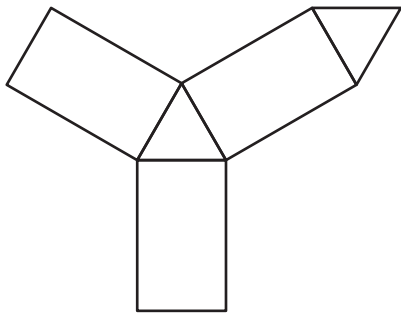


2 marks



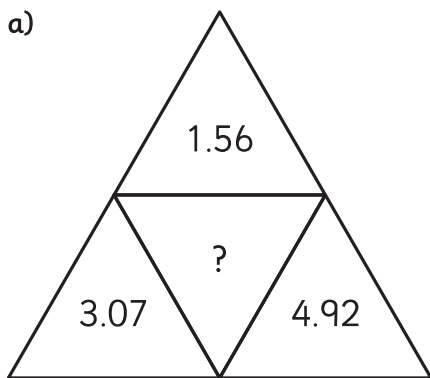
Total for this page

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

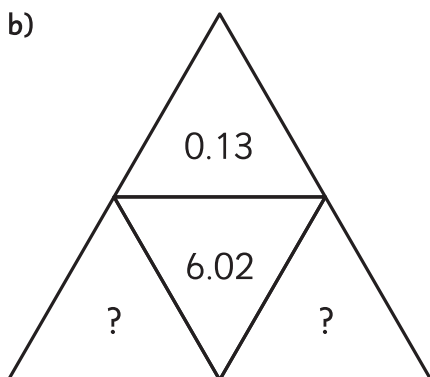


2 marks

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



1 mark



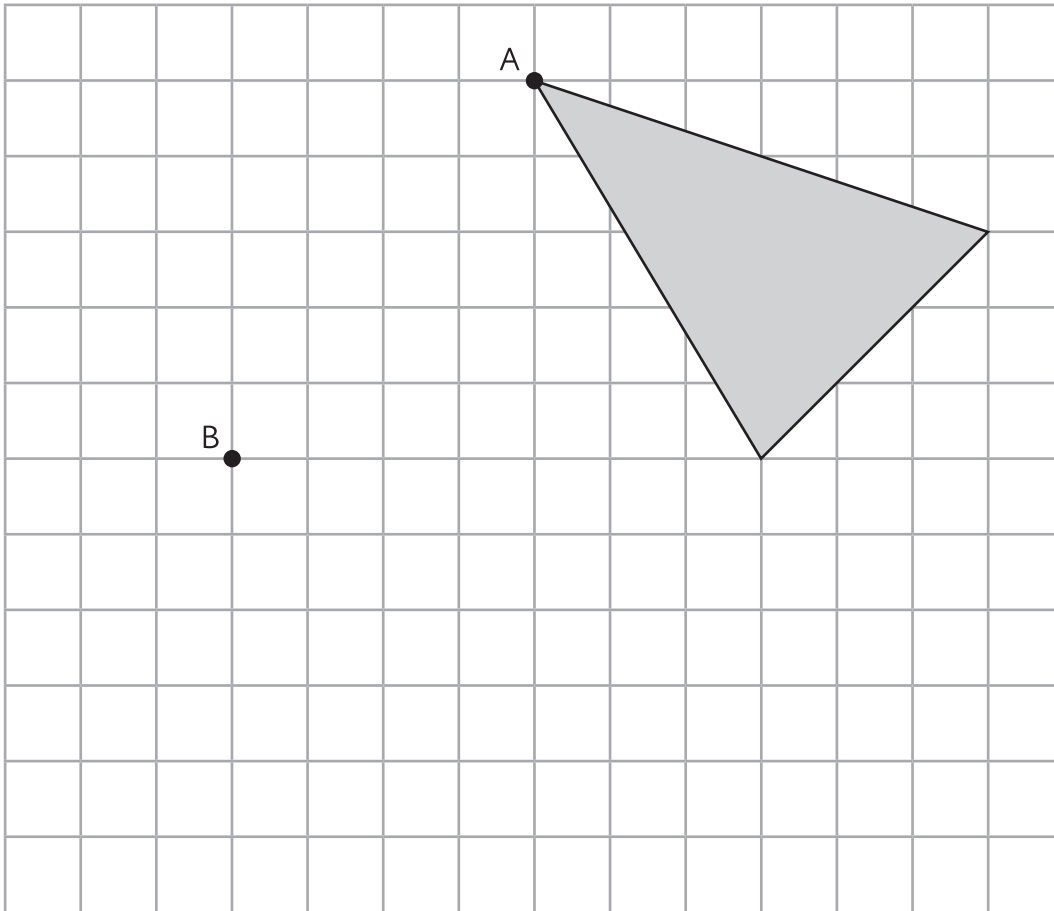
1 mark

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.

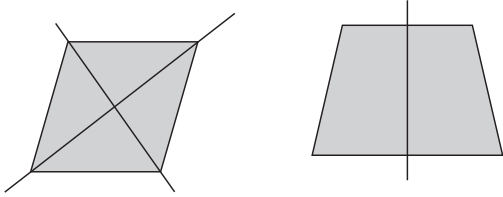
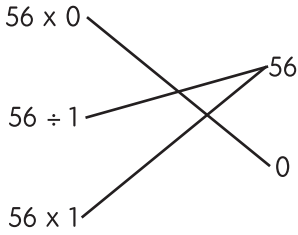
To the nearest 1000

To the nearest 10 000

To the nearest 100 000

2 marks

Total for this page

| 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 39 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. | | | |
| | 1705 | 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 balls = 30 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 | |