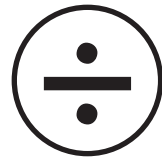
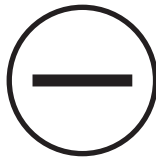


# Key Stage 2

## Mathematics

### Reasoning: Pack 1 Test 1a

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



35

total marks

Name:

Date:

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



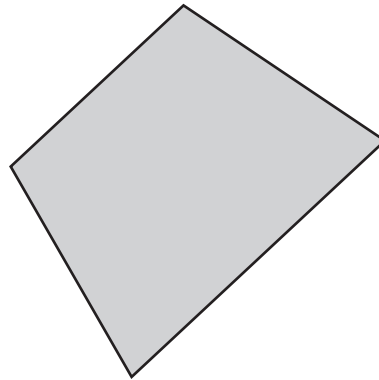
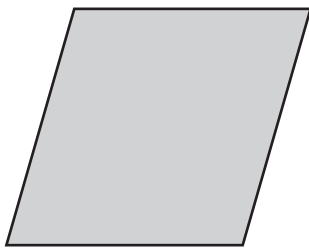
1. Order the following numbers from smallest to largest: 426, 412, 462, 416, 402

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

smallest largest



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



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

$56 \times 0$

$56$

$56 \div 1$

$0$

$56 \times 1$

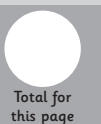


4. Write the decimal equivalents to match the following fractions.

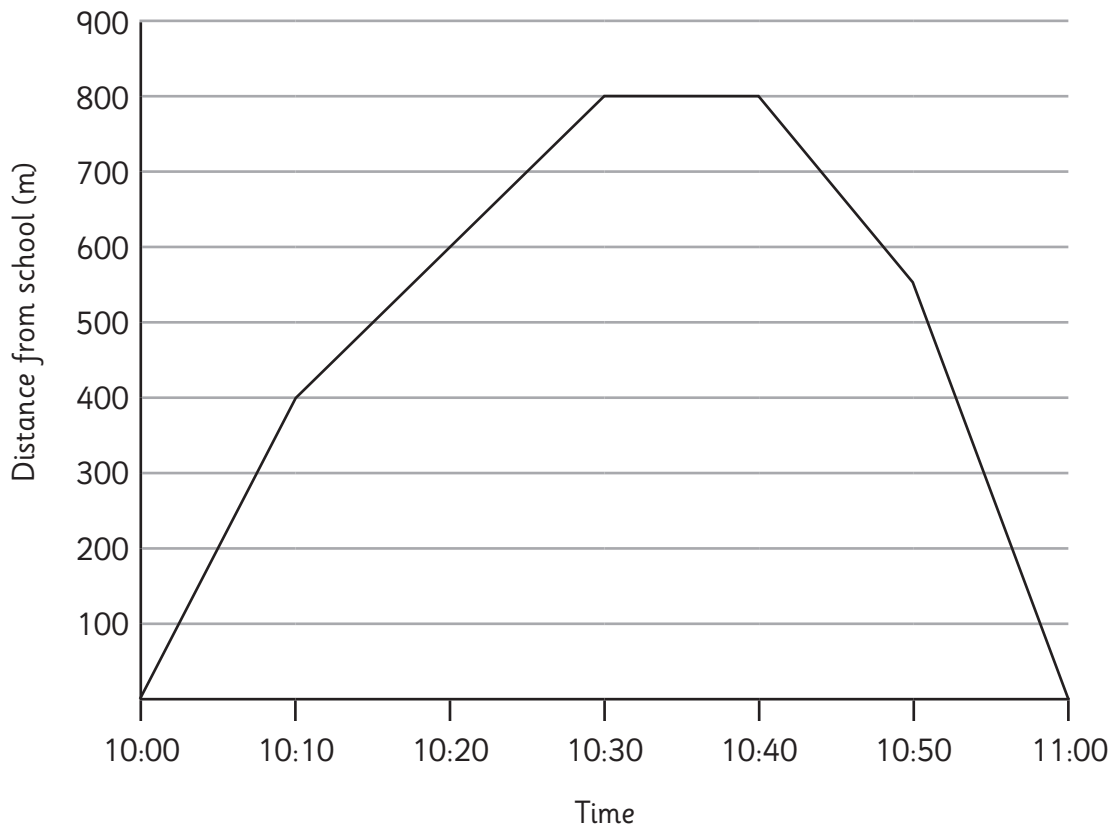
$\frac{1}{4} =$

$\frac{1}{2} =$

$\frac{3}{4} =$



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



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

1 mark

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

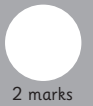
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10. James has to be home by 4.30pm. He is 35 minutes late. Write the time he arrives home in 24 hour time.



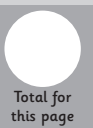
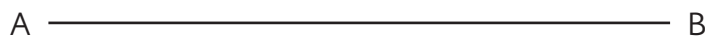
11. The number  $p$  is 20 more than the number  $q$ .  
Using algebra, write the relationship between  $p$  and  $q$ .



12. Write all the factors of 24:



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



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.

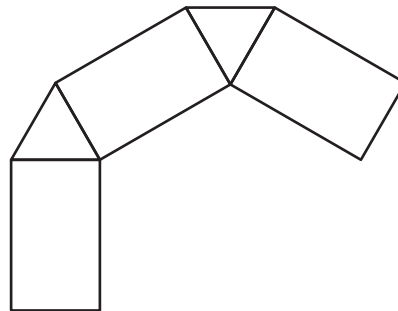
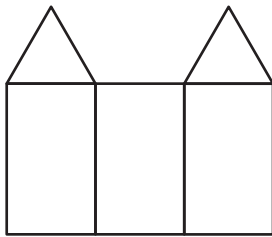
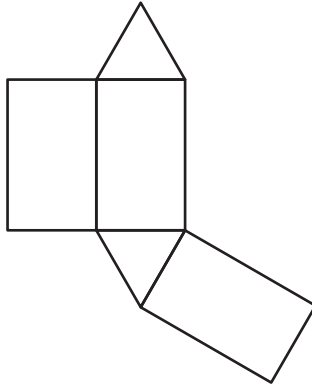
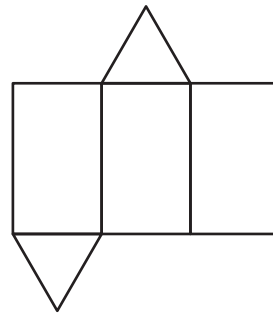
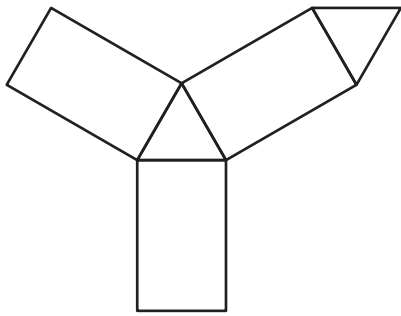
2 marks

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

2 marks

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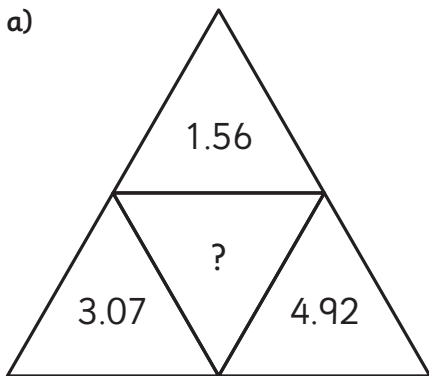
16. Circle the nets which will make a triangular prism.



2 marks

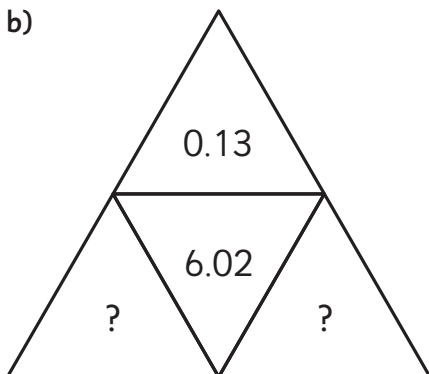
17. Complete the triangles so that the number in the centre is the sum of the numbers on the outside.

a)



1 mark

b)



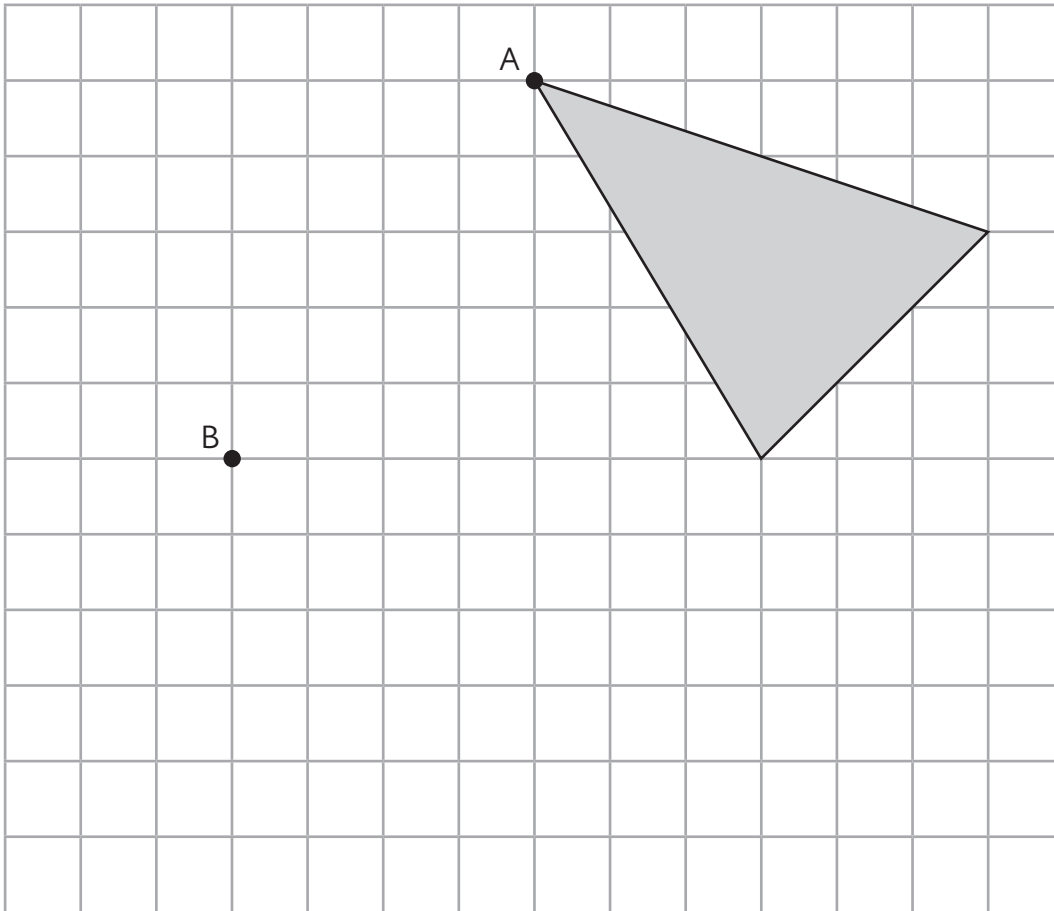
1 mark

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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

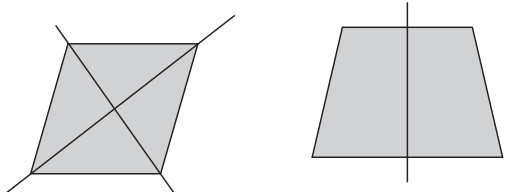
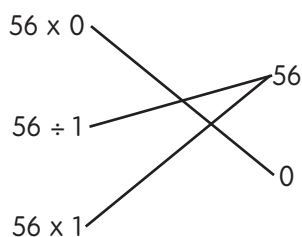
To the nearest 100 000

2 marks

Total for this page





| question  | answer   | marks | notes   |
|-----------|--|-------|---|
| <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<br>0.5<br>0.75  | 1     |   |
| <b>5.</b> |  |       |   |
| a         | 600m   | 1     |   |
| b         | Answers between 36 and 40 minutes inclusive.                                       | 1     |   |
| <b>6.</b> |  |       |   |
| a         | 10.3 cm or 103 mm<br>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>  |   |       |  |
|            | Any combination of coins to make 26p  | 2     | 2 marks for correct answer<br>1 mark for correctly calculating the change as 26p but incorrect coins.<br>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 per digit   |
| <b>10.</b> |   |       |  |
|            | 17:05   | 1     |  |
| <b>11.</b> |   |       |  |
|            | $p = q + 20$ or<br>$q = p - 20$   | 2     | 1 mark for an incorrect expression that uses $p$ , $q$ , $20$ , $=$ and either $+$ or $-$ . e.g. $q = p + 20$  |
| <b>12.</b> |   |       |  |
|            | 1, 2, 3, 4, 6, 8, 12, 24  | 1     |  |
| <b>13.</b> |   |       |  |
|            | Allow $32^\circ - 36^\circ$<br>(See end of answers for an accurate answer of the angle) | 2     |  |
| <b>14.</b> |   |       |  |
|            | 3 balls   | 2     | $(40 \text{ cm} \times 70 = 2800 \text{ cm} = 28 \text{ m})$<br>$3 \text{ balls} = 30 \text{ m}$<br>1 mark for incorrect answer due to one error of calculation.                                   |
| <b>15.</b> |   |       |  |
|            | 0.85 and 0.15   | 2     | 2 marks for both numbers correct.<br>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<br>350 000<br>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.        |

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