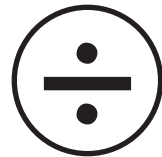
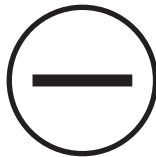


# Key Stage 2

## Mathematics

### Reasoning: Pack 3 Test 3b

Name	
Date	



35

total marks



3. Place the following numbers on the Venn diagram.

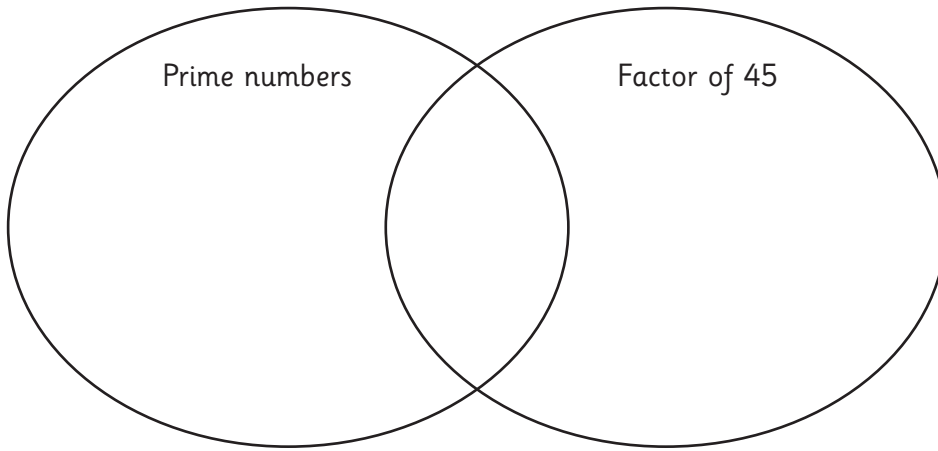
5

7

9

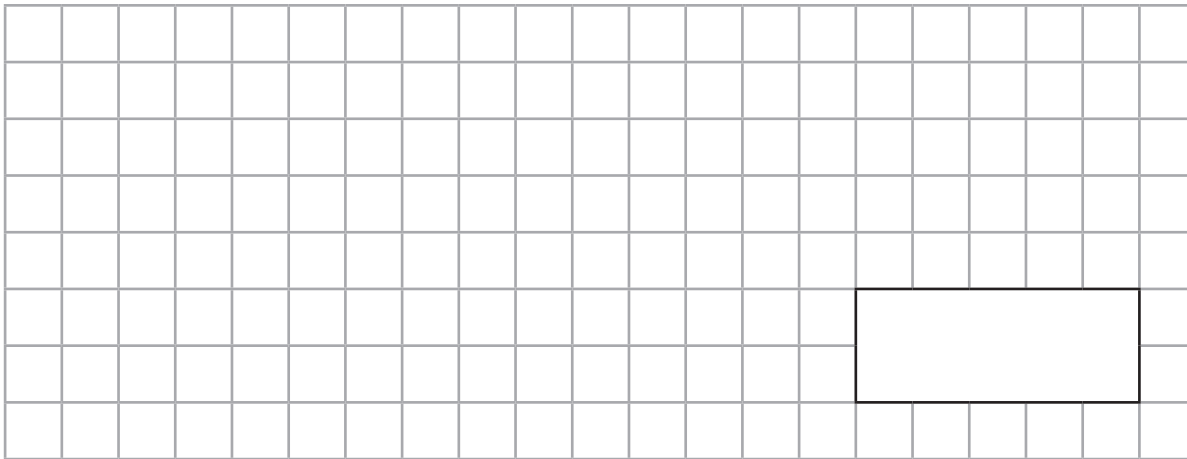
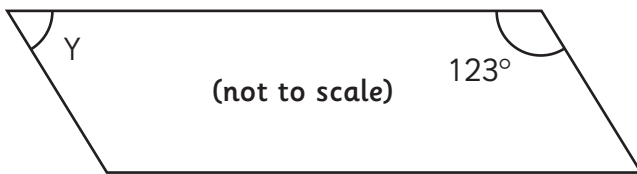
11

13



1 mark

4. In this parallelogram, calculate the angle marked Y.



1 mark

Total for this page

5. Draw lines to match the equivalent decimal fractions, fractions and percentages.

One has been completed for you.

$\frac{1}{2}$	0.625	40%
$\frac{3}{4}$	0.5	62.5%
$\frac{2}{5}$	0.67	67%
$\frac{5}{8}$	0.75	50%
$\frac{2}{3}$	0.4	75%

6. Complete this division calculation.

$$\begin{array}{r} 502 \\ 9 \overline{) 4 \square 1 \square} \end{array}$$

2 marks

2 marks

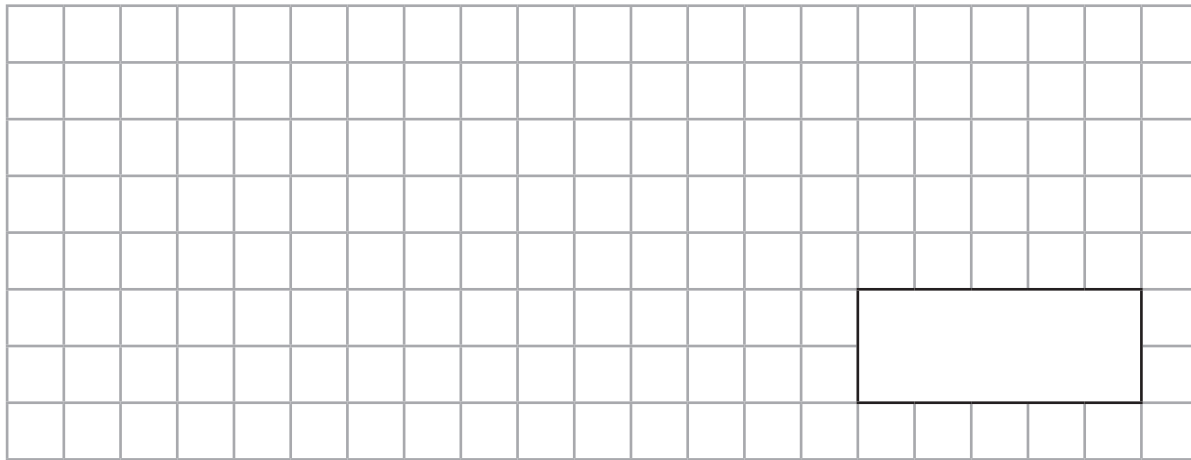
Total for this page





9. The drawing below is drawn to a scale of 1 cm to 2m.

Measure the drawing and calculate the area of the full-sized shape.



2 marks

10. Order the following numbers from the smallest to the largest.

696 996

966 969

969 699

966 699

696 699

--	--	--	--	--

smallest

largest

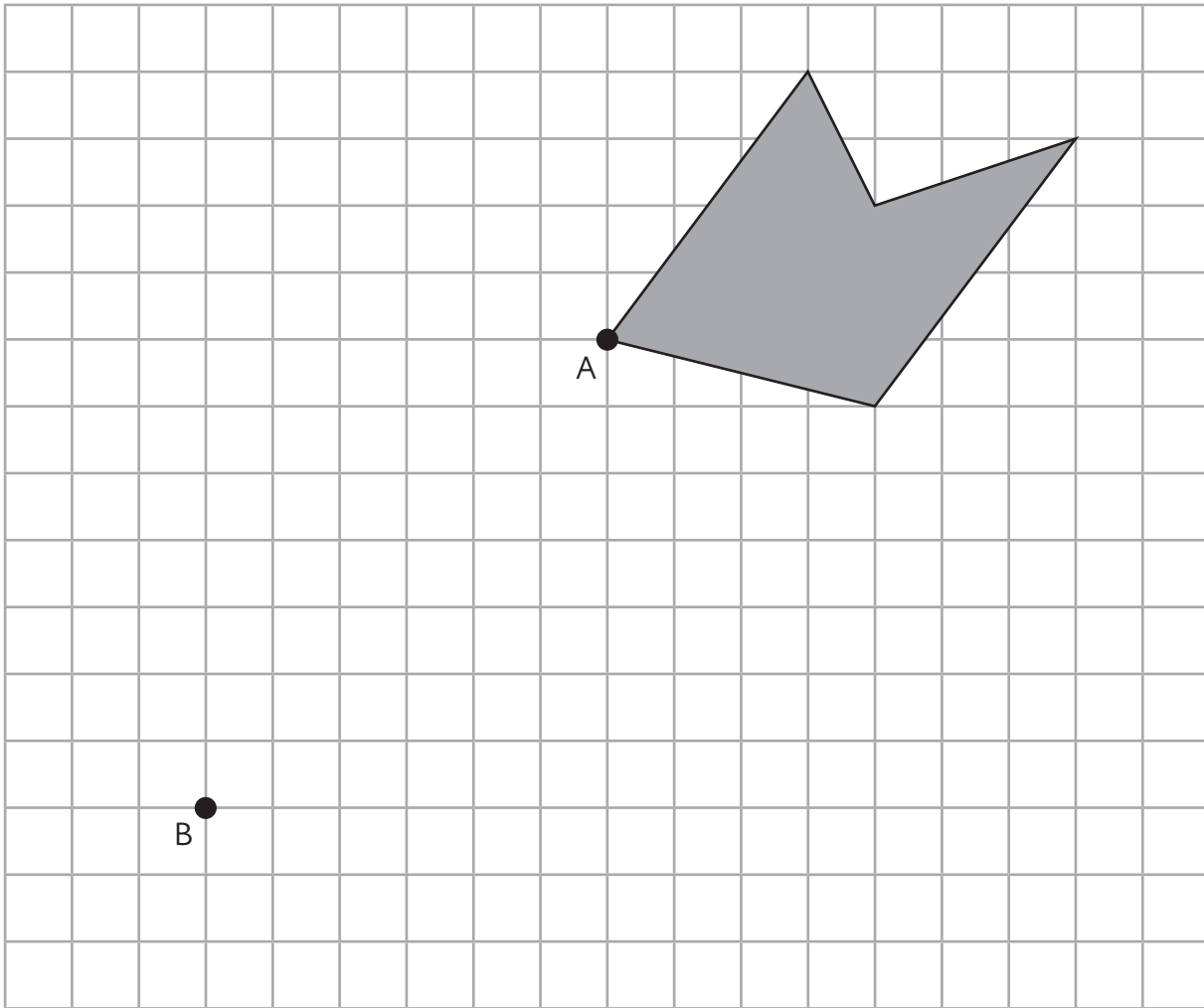


1 mark



Total for this page

11. Translate the shape so that point A is translated to point B.

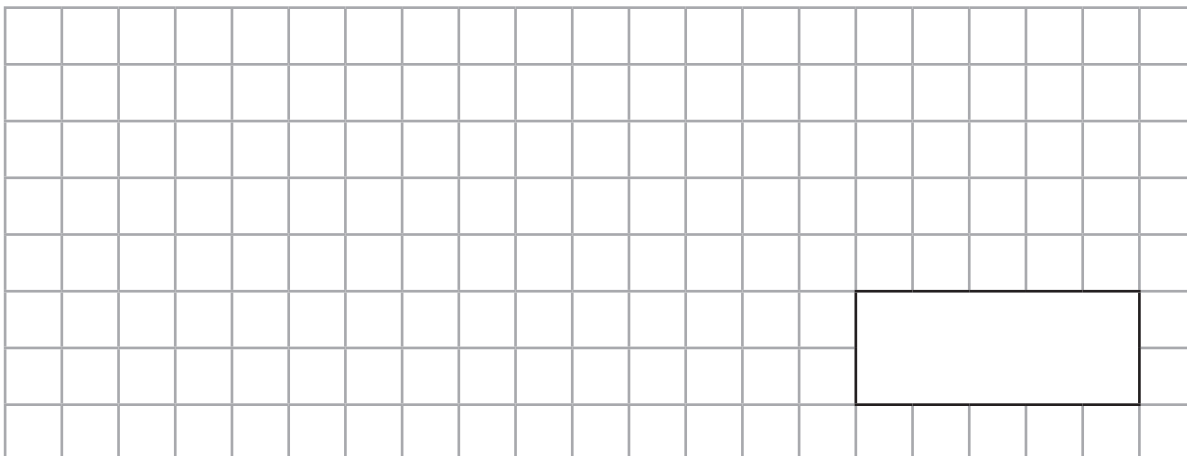


1 mark

12. A dancer spends one hour and fifteen minutes altogether at her two dancing lessons; Street Dance and Tap Dance.

The lengths of the classes are at a ratio of 3:2.

How much longer is the Street Dance class than the Tap Dance class?



2 marks

Total for this page





15. Draw 2 lines that intersect at  $32^\circ$ .

16. Write the following number as a decimal fraction.

$$\frac{34}{1000} = \boxed{\phantom{000}}$$


17. A gaming shop offers 24% discount to customers when 3 console games are bought.  
 Jamie buys 3 console games costing £16, £19 and £25 before the discount is applied.

How much will the games cost altogether after the discount has been applied?


  
1 mark

  
1 mark

  
2 marks

  
Total for  
this page

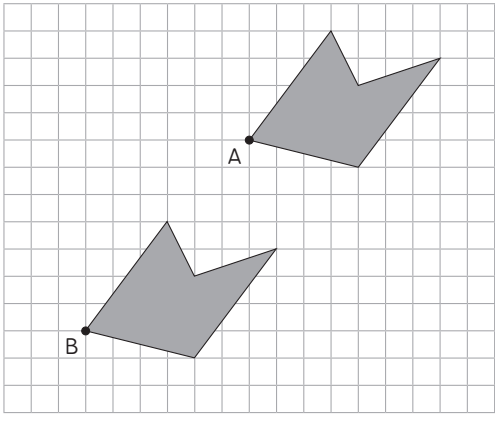








question	answer	marks	notes
<b>1.</b>			
	12 combinations (4x3)	1	
<b>2.</b>			
	190g.	1	1 mark for a reading shown just after 185g, but no more than 200g.
<b>3.</b>			
		1	
<b>4.</b>			
	57° or 57 degrees	1	degrees or ° must be written for the mark.
<b>5.</b>			
		2	2 marks for all 4 correct. 1 mark for 2 correct.
<b>6.</b>			
	$\begin{array}{r} 502 \\ 9 \overline{)4518} \end{array}$	2	2 marks for all correct. 1 mark for 1 digit correct.
<b>7.</b>			
	0.08 seconds (0.12 – 0.04)	2	2 marks for the correct answer. 1 mark for identifying the gap between gold and silver as 0.12 seconds and the gap between silver and bronze as 0.04 seconds.
<b>8.</b>			
	£93.25	2	2 marks for the correct answer. 1 mark for a correct method with only one mistake in calculating.

question	answer	marks	notes															
<b>9.</b>																		
	112m <sup>2</sup>	2	2 marks for a correct answer. 1 mark for correctly identifying that the full size is 14m x 8m.															
<b>10.</b>																		
	696 699, 696 996, 966 699, 966 969, 969 699	1																
<b>11.</b>																		
		1																
<b>12.</b>																		
	15 minutes	2	2 marks for the correct answer. 1 mark for a correct method with only one mistake in calculating.															
<b>13.</b>																		
a	<table border="1"> <thead> <tr> <th>Month</th> <th>Attendance</th> <th>Attendance rounded to the nearest million</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>15 586 610</td> <td><b>16 000 000</b></td> </tr> <tr> <td>February</td> <td>15 162 922</td> <td><b>15 000 000</b></td> </tr> <tr> <td>March</td> <td>11 544 674</td> <td><b>12 000 000</b></td> </tr> <tr> <td>April</td> <td>15 125 895</td> <td><b>15 000 000</b></td> </tr> </tbody> </table>	Month	Attendance	Attendance rounded to the nearest million	January	15 586 610	<b>16 000 000</b>	February	15 162 922	<b>15 000 000</b>	March	11 544 674	<b>12 000 000</b>	April	15 125 895	<b>15 000 000</b>	1	1 mark for all correct.
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b	14 500 000	1																
<b>14.</b>																		
	29 978, 30 978, 31 978	1																



question	answer	marks	notes
<b>15.</b>			
		1	
<b>16.</b>			
	0.034	1	
<b>17.</b>			
	£45.60	2	2 marks for a correct answer 1 mark for incorrect answer with only 1 mistake in calculation
<b>18.</b>			
a	28 children	1	allow 27 - 29
b	7 children	2	2 marks for an answer from 6 to 8 inclusive. 1 mark for an answer of 5 or 9.
<b>19.</b>			
	561	2	2 marks for the correct answer. 1 mark for a correct method with only one mistake in calculating.
<b>20.</b>			
a	07:29	1	
b	06:03	1	
c	25 minutes	1	
<b>21.</b>			
	2°C	2	2 marks for the correct answer. 1 mark for a correct method in adding the temperatures and dividing the answer by 7, even if the calculation is incorrect.
		Total 35	