
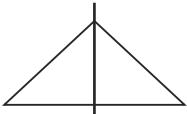
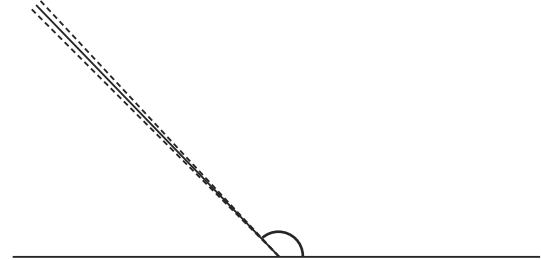
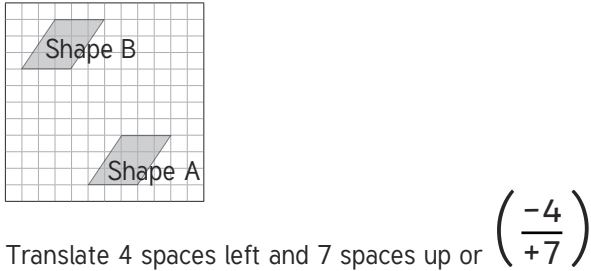


Q	Marks	Answer	Notes
1a	1	48 627, 49 627, 50 627	
1b	1	202 701, 192 701, 182 701	
2	2	$\begin{array}{r} 376 \\ \times \quad 4 \\ \hline 1504 \end{array}$	1 mark for each digit correct.
3	2	14.5cm and 4.2cm	1 mark for each correct answer. Answer can be given in any unit as long as unit is given. The file must be printed at 100% for the answer to be correct. (Most pdf's will print at 97% by default.)
4a	1	Between 9a.m. and 10a.m.	
4b	1	Acceptable answers are 10.30-10.59a.m. and 1.30-1.59p.m.	Both answers correct for the mark.
5a	1		Both lines for 1 mark. Lines should go through the centre of each side, but allow a degree of error.
5b	1		One line for the mark. Line should go through the corner and the centre of the base, but allow a degree of error.
6	1	100 110, 101 101, 1 001 100, 1 010 010, 1 100 001	All correct for 1 mark.
7	2	2013 and MMXIII	1 mark for each correct.
8	1	-16	1 mark for correct answer.
9	2	7.5kg	2 marks for the correct answer. 1 mark for correct method but 1 mistake in calculating.
10	2	22	2 marks for the correct answer. 1 mark for correct method but 1 mistake in calculating, or up to 2 mistakes in reading the graph.
11	1	<p>Solid line: 134°. Dotted lines: 133° and 135°.</p> 	1 mark for correct angle 133°-135°.

12	2	9 rubbers	2 marks for the correct answer. 1 mark for correct method but 1 mistake in calculating.						
13a	1	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"><math>\frac{1}{8}</math></td> <td style="text-align: center;"><math>\frac{3}{8}</math></td> <td style="text-align: center;"><math>\frac{5}{8}</math></td> <td style="text-align: center;"><math>\frac{7}{8}</math></td> </tr> </table>	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{7}{8}$	1 mark for all correct.		
$\frac{1}{8}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{7}{8}$						
13b	1	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"><math>\frac{1}{6}</math></td> <td style="text-align: center;"><math>\frac{1}{3}</math></td> <td style="text-align: center;"><math>\frac{7}{12}</math></td> <td style="text-align: center;"><math>\frac{5}{6}</math></td> <td style="text-align: center;"><math>\frac{11}{12}</math></td> </tr> </table>	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{7}{12}$	$\frac{5}{6}$	$\frac{11}{12}$	1 mark for all correct.	
$\frac{1}{6}$	$\frac{1}{3}$	$\frac{7}{12}$	$\frac{5}{6}$	$\frac{11}{12}$					
14	2	2 one-litre bottles $£1.60 - 16p = £1.44$	2 marks for correct answer. 1 mark for correctly calculating 10% of what is calculated as the cost of 2 one-litre bottles.						
15	1	 Translate 4 spaces left and 7 spaces up or $\begin{pmatrix} -4 \\ +7 \end{pmatrix}$	Accept 7 squares up and 4 squares left or 4 squares left and 7 squares up.						
16	2	64 $64 = 8^2$ and $4^3$	1 mark for 64. 1 mark for writing $8^2$ and $4^3$ . Accept 8 squared and 4 cubed.						
17a	1	1 and 36, 2 and 18, 3 and 12, 4 and 9, 6 and 6	Can be written in any form as long as the intention is clear. E.g. $1 \times 36$						
17b	1	1, 2, 4 and 8	1 mark for all four common factors.						
18	2	largest <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"><math>\frac{3}{4}</math></td> <td style="text-align: center;">of 40</td> </tr> <tr> <td style="text-align: center;"><math>\frac{2}{3}</math></td> <td style="text-align: center;">of 42</td> </tr> <tr> <td style="text-align: center;"><math>\frac{1}{2}</math></td> <td style="text-align: center;">of 54</td> </tr> </table> smallest	$\frac{3}{4}$	of 40	$\frac{2}{3}$	of 42	$\frac{1}{2}$	of 54	2 marks for correct answer. 1 mark for two in the correct order.
$\frac{3}{4}$	of 40								
$\frac{2}{3}$	of 42								
$\frac{1}{2}$	of 54								
19	2	2 x 750ml, 1 x 500ml, 3 x 250ml = £4.80. $£5.00 - £4.80 = £0.20$	2 marks for correct answer. 1 mark for correctly calculated total >£4.						
20a	1	72%							
20b	1	38%							
<b>Total</b>	<b>35</b>								