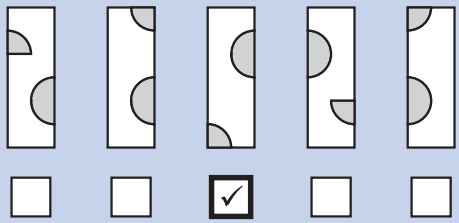


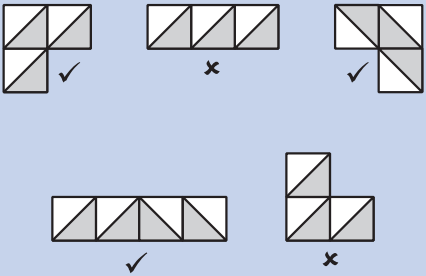
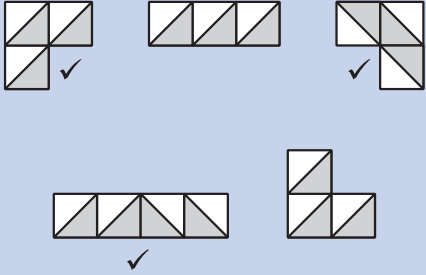


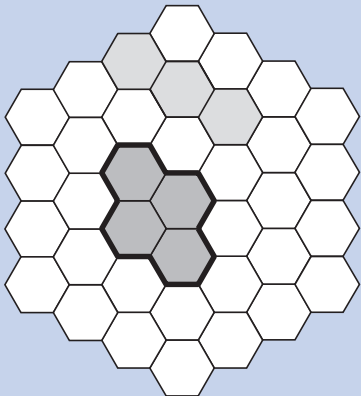
### Test A questions 1–8

Question	Requirement	Mark	Additional guidance
<b>1a</b>	15	<b>1m</b>	
<b>1b</b>	50	<b>1m</b>	
<b>2</b>	One of the following triples: 150, 400, 450      450, 400, 150 250, 400, 350      350, 400, 250 350, 200, 450      450, 200, 350	<b>1m</b>	Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.
<b>3</b>	One pattern ticked as shown: 	<b>1m</b>	Accept alternative unambiguous indications of the correct pattern, eg pattern circled.
<b>4</b>	70	<b>1m</b>	
<b>5</b>	Three numbers circled as shown: 	<b>1m</b> 	<b>Do not</b> award the mark if additional incorrect numbers are circled. Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.
<b>6a</b>	£15	<b>1m</b>	
<b>6b</b>	Award <b>TWO</b> marks for the correct answer of £12  If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg $11.50 + 16.50 = 28$ $40 - 28 = \text{wrong answer}$	<b>Up to 2m</b>	Accept for <b>ONE</b> mark £1200 <b>OR</b> £1200p as evidence of appropriate working.  Working must be carried through to reach an answer for the award of <b>ONE</b> mark.
<b>7a</b>	5	<b>1m</b>	
<b>7b</b>	Answer in the range 33km to 37km inclusive.	<b>1m</b>	
<b>8a</b>	10:45am	<b>1m</b>	The answer is a specific time (see page 5 for guidance).
<b>8b</b>	1:15pm	<b>1m</b>	The answer is a specific time (see page 5 for guidance).

### Test A questions 9–13

Question	Requirement	Mark	Additional guidance
9	<p>Award <b>TWO</b> marks for the correct answer of 55p <b>OR</b> £0.55</p> <p>If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg</p> $8.75 - 7.65 = 1.10$ $1.10 \div 2 = \text{wrong answer}$	Up to 2m	<p>Accept for <b>ONE</b> mark £55 <b>OR</b> £55p <b>OR</b> 0.55p as evidence of appropriate working.</p> <p>Working must be carried through to reach an answer for the award of <b>ONE</b> mark.</p>
10a	May <b>AND</b> October	1m	Answers may be given in either order.
10b	4	1m	Accept unambiguous abbreviations or recognisable misspellings.
10c	7	1m	
11	340	1m	
12	<p>Award <b>TWO</b> marks for diagrams ticked or crossed as shown:</p>  <p>If the answer is incorrect, award <b>ONE</b> mark for any four diagrams ticked or crossed correctly.</p>	Up to 2m	<p>Accept alternative unambiguous indications such as <b>Y</b> or <b>N</b>.</p> <p>For <b>TWO</b> marks accept:</p> 
13	18	1m	Accept -18

### Test A questions 14–18

Question	Requirement	Mark	Additional guidance
14	Shape drawn on grid as shown: 	1m	Accept shape in any position or orientation. Accept slight inaccuracies in drawing provided the intention is clear. Accept alternative unambiguous indications of the correct shape provided the intention is clear. Accept mathematically correct answers involving fractions of a hexagon. Shape need not be shaded.
15a	A multiple of 12 which ends in '8', eg 48 <b>OR</b> 108 <b>OR</b> 168 <b>OR</b> 228 <b>OR</b> 288	1m	
15b	An explanation which recognises that an odd number cannot be a multiple of 4, eg: <ul style="list-style-type: none"> <li>■ 'A multiple of 4 cannot be odd'</li> <li>■ 'All multiples of 4 are even'</li> <li>■ 'An odd number cannot be a multiple of 4'</li> <li>■ 'Multiples of 4 must end in 0, 2, 4, 6 or 8'</li> <li>■ '4, 8, 12, 16, 20, 24 don't end in 3'.</li> </ul>	1m (U1)	<b>Do not</b> accept vague or incomplete explanations, eg: <ul style="list-style-type: none"> <li>■ '3 is not a multiple of 4'</li> <li>■ '3 is too small'</li> <li>■ '4 is even and 3 is an odd number'</li> <li>■ '13, 23, 33 and 43 are not multiples of 4'</li> <li>■ 'A number which ends in 3 cannot be a multiple of 4'</li> <li>■ '3 isn't in the 4 times table'</li> <li>■ '4 doesn't go into any number that ends in 3'.</li> </ul>
16	Two numbers circled as shown: 0.5 (0.8) 0.23 0.09 (0.67)	1m	<b>Do not</b> award the mark if additional incorrect numbers are circled. Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.
17	A <b>AND</b> C	1m	Answers may be given in either order.
18	Award <b>TWO</b> marks for the correct answer of 75p If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg $£1.45 - £1.10 = 35p$ $£1.10 - 35p = \text{wrong answer}$ <b>OR</b> $£1.10 \times 2 = £2.20$ $£2.20 - £1.45 = \text{wrong answer}$	Up to 2m (U1)	Accept for <b>ONE</b> mark 0.75p <b>OR</b> £75 as evidence of appropriate working. Working must be carried through to reach an answer for the award of <b>ONE</b> mark.

## Test A questions 19–21

Question	Requirement	Mark	Additional guidance																														
<b>19</b>	<p>Award <b>TWO</b> marks for four rows ticked correctly, as shown:</p> <table style="margin-left: 20px;"> <tr> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input type="checkbox"/></td> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input checked="" type="checkbox"/></td> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input type="checkbox"/></td> </tr> <tr> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input checked="" type="checkbox"/></td> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input type="checkbox"/></td> </tr> <tr> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input type="checkbox"/></td> <td style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"><input checked="" type="checkbox"/></td> </tr> </table> <p>If the answer is incorrect, award <b>ONE</b> mark for three rows ticked correctly.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Up to 2m</b>	<p><i>Accept alternative unambiguous indications such as <b>x</b> or <b>Y</b>.</i></p>																						
<input type="checkbox"/>	<input checked="" type="checkbox"/>																																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																																
<input type="checkbox"/>	<input checked="" type="checkbox"/>																																
<b>20</b>	<p>Award <b>TWO</b> marks for the correct answer of 24</p> <p>If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working which contains no more than <b>ONE</b> arithmetical error, eg</p> <ul style="list-style-type: none"> <li>■ repeated addition / subtraction methods, eg           <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 10px;">504</td> <td></td> </tr> <tr> <td style="text-align: right; border-bottom: 1px solid black;">-210</td> <td style="padding-left: 10px;">10 × 21</td> </tr> <tr> <td style="text-align: right; padding-top: 5px;">294</td> <td></td> </tr> <tr> <td style="text-align: right; border-bottom: 1px solid black;">-210</td> <td style="padding-left: 10px;">10 × 21</td> </tr> <tr> <td style="text-align: right; padding-top: 5px;">84</td> <td></td> </tr> <tr> <td style="text-align: right; border-bottom: 1px solid black;">-84</td> <td style="padding-left: 10px;">4 × 21</td> </tr> <tr> <td style="text-align: right; padding-top: 5px;">0</td> <td style="padding-left: 10px;">wrong answer</td> </tr> </table> </li> <li>■ factor / multiple methods, eg           <p style="margin-left: 20px;">504 ÷ 3 = 168</p> <p style="margin-left: 20px;">168 ÷ 7 = wrong answer</p> </li> <li>■ long division algorithm           <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 10px;">wrong answer</td> <td></td> </tr> <tr> <td style="text-align: right; border-bottom: 1px solid black;">21) 504</td> <td></td> </tr> <tr> <td style="text-align: right; padding-top: 5px;">420</td> <td></td> </tr> <tr> <td style="text-align: right; padding-top: 5px; border-bottom: 1px solid black;">84</td> <td></td> </tr> <tr> <td style="text-align: right; padding-top: 5px;">-84</td> <td></td> </tr> <tr> <td style="text-align: right; padding-top: 5px; border-bottom: 1px solid black;">0</td> <td></td> </tr> </table> </li> <li>■ short division algorithm           <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 10px;">wrong answer</td> <td></td> </tr> <tr> <td style="text-align: right; border-bottom: 1px solid black;">21) 504</td> <td></td> </tr> </table> </li> </ul>	504		-210	10 × 21	294		-210	10 × 21	84		-84	4 × 21	0	wrong answer	wrong answer		21) 504		420		84		-84		0		wrong answer		21) 504		<b>Up to 2m</b>	<p><i>In all cases accept follow through of <b>ONE</b> error in working.</i></p> <p><i>Working must be carried through to reach an answer for the award of <b>ONE</b> mark.</i></p> <p><i><b>Do not</b> award any marks if the final answer is missing.</i></p> <p><i>Variations on algorithms are acceptable, provided they represent a viable and complete method.</i></p> <p><i><b>No mark</b> is awarded for repeated addition / subtraction the wrong number of times.</i></p> <p style="margin-top: 20px;"><i>Short division methods must be supported by evidence of appropriate carrying figures to indicate use of a division algorithm.</i></p>
504																																	
-210	10 × 21																																
294																																	
-210	10 × 21																																
84																																	
-84	4 × 21																																
0	wrong answer																																
wrong answer																																	
21) 504																																	
420																																	
84																																	
-84																																	
0																																	
wrong answer																																	
21) 504																																	
<b>21</b>	<p>Award <b>TWO</b> marks for the correct answer of 75</p> <p>If the answer is incorrect, award <b>ONE</b> mark for evidence of appropriate working, eg</p> <p>50 ÷ 2 × 3 = wrong answer</p>	<b>Up to 2m</b>  <b>U1</b>	<p><i>Working must be carried through to reach an answer for the award of <b>ONE</b> mark.</i></p>																														

Test A questions 22–25

Question	Requirement	Mark	Additional guidance												
22	<p>Diagram completed as shown:</p>	1m	<p>Accept inaccuracies in drawing provided the intention is clear.</p> <p>Shapes need not be shaded.</p>												
23	<p>Award <b>TWO</b> marks for three rows ticked correctly as shown:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>If the answer is incorrect, award <b>ONE</b> mark for any two rows ticked correctly.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Up to 2m	Accept alternative unambiguous indications such as <b>x</b> or <b>Y</b> .
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>													
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>													
24	<p>Two numbers circled as shown:</p> <p style="text-align: center;">1.1    <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1.4</span>    <span style="border: 1px solid black; border-radius: 50%; padding: 2px;"><math>1\frac{1}{3}</math></span>    <math>1\frac{1}{5}</math></p>	1m	<p><b>Do not</b> award the mark if additional incorrect numbers are circled.</p> <p>Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.</p>												
25	<p>An explanation (or diagram) which recognises that the sum of two obtuse angles would be greater than 180 degrees, eg:</p> <ul style="list-style-type: none"> <li>■ 'An obtuse angle is greater than 90 degrees and the angles of a triangle add up to 180 degrees'</li> <li>■ 'Two obtuse angles add up to more than 180'</li> <li>■ '180 degrees is less than two obtuse angles'</li> <li>■ 'It must have at least two acute angles'</li> <li>■ 'The shape would need more than 3 sides to join up'</li> </ul>	<p>1m</p> <p style="text-align: center;"><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">U1</span></p>	<p><b>Do not</b> accept answers that refer only to the properties of obtuse angles <b>OR</b> to the angles of a triangle, eg:</p> <ul style="list-style-type: none"> <li>■ 'The angles of a triangle add up to 180 degrees'</li> <li>■ 'Obtuse angles are greater than 90 degrees'.</li> </ul> <p><b>Do not</b> accept vague or incomplete explanations, eg:</p> <ul style="list-style-type: none"> <li>■ 'A triangle cannot have two obtuse angles'</li> <li>■ 'Obtuse angles would be too big'</li> <li>■ 'You can only have acute angles'.</li> </ul>												