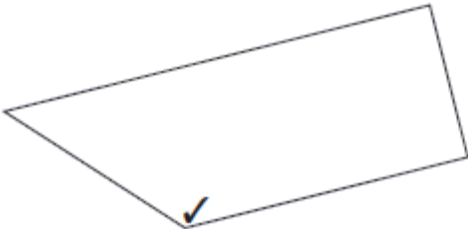


# Day 5 Answers


Task 1	Task 2	Task 3
<p><b>SATs Book Activities</b>  <b>Developing/ Expected</b>  <b>Pg. 45</b></p> <p><i>Angles and degrees (page 45)</i></p> <p>1. 120            2. 50            3. <math>a = 72</math> and <math>b = 135</math>            4. 75            5. Award 2 marks for correct answer 105.            Award 1 mark for evidence of the correct method (i.e. <math>360 - 150 = 210</math>, then divided by 2 = incorrect answer).            Do not award any marks for not recognising that angles at a point sum to <math>360^\circ</math> or for omitting a step in the problem.</p> <p><b>Greater Depth</b>  <b>Pg. 44</b></p> <p><i>Angles and degrees (page 44)</i></p> <p>1. 72            2. 65            3. <math>a = 55</math> <math>b = 35</math> <math>c = 55</math>            4. 108            5. <math>m = 115</math> and <math>n = 120</math></p>	<p><b>Arithmetic</b></p> <p>22. <math>2\frac{2}{3}</math> [1]</p> <p>23. 360 [1]</p> <p>24. For 2 marks: [2]  <math>42 \text{ r}22</math> or <math>42\frac{22}{53}</math> or <math>42.4(15\dots)</math></p> <p>For 1 mark:            42 or evidence of either a long division method or short division method with only one error (carry figures must be seen in a short division method)</p> <p>25. <math>\frac{1}{15}</math> [1]</p> <p>26. 1980</p> <p>27. <math>\frac{1}{12}</math> [1]</p> <p>28. <math>\frac{3}{28}</math> [1]</p>	<p><b>Problem Solving/ Reasoning</b>  <b>Task 1</b></p> <p>Correct angle indicated as shown:</p>  <p>Accept alternative unambiguous indications, eg correct angle crossed or circled.</p> <p><b>Task 2</b></p> <p>(a) 160            (b) 20</p> <p>If the answers to a and b are incorrect, award <b>ONE</b> mark if <math>a + b = 180^\circ</math> unless b is between <math>33^\circ</math> and <math>37^\circ</math> inclusive, or <math>0^\circ</math></p> <p><b>Task 3</b></p> <p>(a) c AND e            Letters may be given in either order.</p> <p>(b) a AND d            Letters may be given in either order.</p>

## Day 5 Answers

### Task 4

Indicates No and gives a correct explanation

e.g.

- The angles are not the same size
- A regular pentagon looks like this,  with its angles all the same size
- All the angles should be  $108^\circ$
- It doesn't have rotation symmetry
- It's got more sides than a square so all its angles should be obtuse, but they're not

$60^\circ$

Shows that the  $150^\circ$  angle can be split into  $90^\circ$  and  $60^\circ$