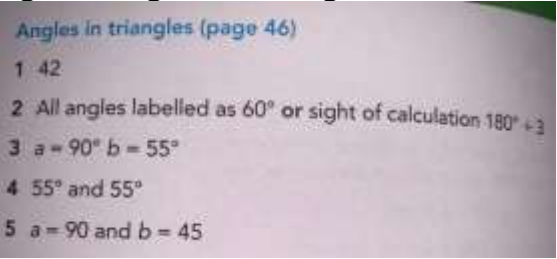
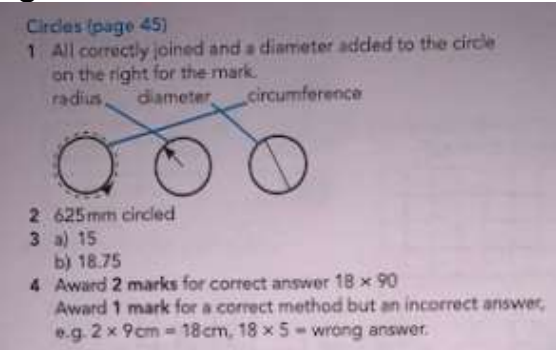


Day 4 Answers

| Task 1 | Task 2 | Task 3 |
|--|---|--|
| <p>SATs Book Activities Developing/ Expected Pg. 46 Angles in triangles</p>  <p>Greater Depth Pg. 43 Circles</p>  | <p>Arithmetic</p> <p>15. 27</p> <p>16. $5\frac{7}{9}$</p> <p>17. 0.1205</p> <p>18. 0.42</p> <p>19. 24 [1]</p> <p>20. 45.35 [1]</p> <p>21. For 2 marks: 18 405 [2]</p> <p>For 1 mark:</p> $\begin{array}{r} 409 \\ \times 45 \\ \hline 2045 \\ 16360 \\ \hline 18405 \end{array}$ <p><i>An error in one row, then added correctly, or an error in the addition</i></p> | <p>Problem Solving/ Reasoning Task 1</p> <p>540</p> <p>Task 2 Award TWO marks for the correct answer of 104°.</p> <p>If the answer is incorrect, award ONE mark for evidence of an appropriate method, e.g.</p> <ul style="list-style-type: none"> $180 - 38 - 38 = a$ <i>Answer need not be obtained for the award of ONE mark.</i> <p>Task 3</p> <p>An explanation that includes a correct counter example, e.g.</p> <ul style="list-style-type: none"> When you double 10° it is not obtuse $2 \times 27^\circ = 54^\circ$ Double 45° is a right angle not obtuse <p>OR</p> <p>An explanation that demonstrates where the statement in the question is not correct, e.g.</p> <ul style="list-style-type: none"> If the acute angle is less than 45° then doubling it will be less than 90°, so it won't be obtuse (more than 90°). Do not accept vague or incomplete explanations, e.g. <ul style="list-style-type: none"> Sometimes it will be acute Some acute angles are half an obtuse angle, but not all When you double an acute angle, you get a right angle Do not accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g. <ul style="list-style-type: none"> $20^\circ\text{C} \times 2 = 40^\circ\text{C}$ $20\% \times 2 = 40\%$ |

Day 4 Answers

Task 4

An explanation showing an understanding:

- that this specific triangle has angles 70, 70 and 40

OR

- of the properties of an equilateral triangle – all angles are equal (60°)

and therefore that this triangle cannot be equilateral, e.g.

- The angles aren't 60°
- There is not a 60° angle
- It has two different angles (70° and 40°) so it can't be equilateral
- The angles aren't the same
- An equilateral triangle has $60^\circ + 60^\circ + 60^\circ$
- All the angles are the same in an equilateral triangle
- It's an isosceles triangle.

(In the context of this question, the term isosceles triangle is treated as not including equilateral triangles as a special type, as the national curriculum does not specify this at key stage 2.)

Do not accept vague or incomplete explanations, e.g.

- The other angle is 70°
- They aren't (all) the same. (No reference to angles)
- An equilateral triangle has equal angles. (Does not say all.)

Do not accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g.

- $40 + 70 = 110 + 70 = 180$