

# Day 4 Answers

| Task 1   | Task 2   | Task 3  |
|--|--|---|
| <p><b>Problem solving</b><br/><b>Q1.</b></p> <p>(a) Indicates 300</p> <p><b>Working need not be shown for the award of this mark.</b><br/>Ignore use of cubed sign eg</p> <ul style="list-style-type: none"> <li>• <math>300^3</math></li> </ul> <p><b>Do not accept incorrect attempt to convert to different units eg</b></p> <ul style="list-style-type: none"> <li>• 3</li> <li>• 30</li> </ul> <p>(b) <b>For 2m</b> indicates 360.</p> <p><b>For only 1m</b> shows 60 as 20% of 300 in working or given 60 as volume of the box.</p> <p><b>Working need not be shown for the award of any marks.</b><br/><b>For 2m or 1m</b> allow follow through from part (a), with correct rounding or truncation.</p> <p><b>Award only 1m</b> for correct calculation indicated but not evaluated or incorrectly evaluated eg</p> <ul style="list-style-type: none"> <li>• <math>12 \times 6 \times 5 = 432</math></li> <li>• <math>1.2 \times 300</math></li> <li>• <math>300 \times 20 \div 100 + 300</math></li> </ul> | <p><b>Arithmetic</b></p> <p><b>9.</b> -13</p> <p><b>10.</b> 124</p> <p><b>11.</b> 5,320</p> <p><b>12.</b> 600</p> <p><b>13.</b> 548.22</p> <p><b>14.</b> 102.554</p> <p><b>15.</b> 100,049</p> | <p><b>Murder Mystery</b></p> <p>Clue 4 – It's time to co-ordinate your investigation.</p> <p>(0,-3) M(3,3) U(-3,-5) R(1,-2) D(-2,1) E(-3,-5) R(-2,1) E(-3,-5) R<br/>(1,-2) D(-3,-5) R(3,1) O(5,2) V(-2,1) E(3,1) O(-3,-3) F(-3,-3) F<br/>(-4,-4) I(-3,1) N(4,4) A(-3,-5) R(-2,1) E(1,-2) D(4,-2) C(4,4) A<br/>(-3,-5) R<br/>Murderer drove off in a red car</p> |

## Day 4 Answers

**Do not accept** height calculated as 12 with no further attempt to find the volume.

(c) Indicates 12 salt pots.

**Working need not be shown for the award of this mark.**

Allow follow through from part (a) or (b) with correct rounding or truncation.

Accept any indication eg

- 2 more salt pots drawn on diagram given.

Accept correct description eg

- 2 more salt pots.

**Do not accept** fractions of a salt pot.

**Do not accept** fewer than 10 salt pots eg

- 2 salt pots.

**Q2.**

20%

**Q3.**

(a) Award **TWO** marks for 7500 cm<sup>2</sup> even if there are errors in working.

If answer is incorrect, award **ONE** mark for evidence of attempt to calculate  $60 \times 125$  by any appropriate method involving multiplication (not repeated addition only) and some correct partial solution, eg:

## Day 4 Answers

- $60 \times 100 + 60 \times 20 + 60 \times 5 = 6000 + 120 + 30$  (partially correct)
- $10 \times 125 \times 6 = 1205 \times 6$  (incorrect answer given)
- $60 \times 125 = 750$  (incorrect answer given)

- (b) Award **TWO** marks for the correct answer of  $1500 \text{ cm}^2$  **OR** **TWO** marks for correct calculation of 20% of answer given to (a)

If the answer is incorrect award **ONE** mark for evidence of an attempt to calculate 20% by an appropriate method, eg:

- 20% is  $\frac{1}{5}$ , so that's  $7500 \div 5 =$  (incorrect answer given)

*In marking part (b) give credit to children who correctly calculate 20% of their answer to(a), even if their answer to (a) was incorrect.*

*The writing of an expression such as:*

- $20/100 \times 7500$
- $0.2 \times 7500$

*alone, without working, is insufficient for the award of the mark.*

### Q4.

- (a) Award **ONE** mark for an answer in the range £85 to £125, **inclusive**.

## Day 4 Answers

- (b) Award **ONE** mark for the correct answer of £50  
Accept any estimate in the range £45 to £55, **inclusive**.