Day 1 Answers

Task 1	Task 2	Task 3
	Arithmetic	**Murder Mystery**

Task 1

Problem solving

Q1.

315

Q2.

55p

Q3.

100

Q4.

20 p   10p

Coins must be in the correct order

Task 2 — Arithmetic

25. For 2 marks: 39,508   [2]

 For 1 mark:

$$
\begin{array}{r}
476 \\
\times\ \ 83 \\
\hline
1428 \\
38080 \\
\hline
39508
\end{array}
$$

 *An error in one row, then added correctly, **or** an error in the addition*

26. $1\frac{1}{12}$ or equivalent   [1]

 e.g. $\frac{13}{12}$

27. $5\frac{5}{8}$ or equivalent   [1]

 e.g. $\frac{45}{8}$

 Do not accept unconventional mixed numbers e.g. $4\frac{13}{8}$

28. For 2 marks: 106,662   [2]

 For 1 mark:

$$
\begin{array}{r}
3678 \\
\times\ \ 29 \\
\hline
33102 \\
73560 \\
\hline
106662
\end{array}
$$

 *An error in one row, then added correctly, **or** an error in the addition*

29. 8.46   [1]

30. For 2 marks: [2]

 208 rem 33 or equivalent

 For 1 mark:

 Evidence of either long division or short division method with only one error (carry figures must be seen in a short division method).

31. $\frac{5}{12}$ or equivalent   [1]

Task 3 — Murder Mystery

Clue 1 – Get into shape.

The answer to each question is a number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc.

1. Total number of sides of 5 squares 20=T
2. An octagon has ___ sides 8=H
3. A square based pyramid has ___ vertices 5=E
4. The total sides of a triangle, square and a hexagon 13=M
5. The total sides of an octagon, a heptagon and a hexagon 21=U
6. The total sides of 2 nonagons 18=R
7. A rhombus has ___ sides 4=D
8. A pentagon has ___ sides 5=E
9. Total sides of an octagon and a decagon 18=R
10. Half the number of sides of a decagon 5=E
11. The number of sides in a triangle multiplies by the number of sides in a hexagon 18=R
12. A parallelogram has ___ sides 4=D
13. Total sides of 3 hexagons 18=R
14. The number of sides in one equilateral triangle, one right angle triangle, one isosceles triangle and two scalene triangles. 15=O
15. The number of right angles in 2 squares and 2 rectangles 16=P
16. Total sides of 4 rectangles 16=P
17. Number of lines of symmetry in a regular pentagon 5=E
18. Number of sides of a trapezium 4=D
19. Number of lines of symmetry in a kite 1=A
20. A cube has ___ vertices 8=H
21. Number of sides a circle has 1=A
22. The total sides of 4 pentagons 20=T