

Monday (answers) – LO: to use and calculate formulae.

Varied fluency

Developing

1a. $P = 2a + 2b$ is a formula; $36 + 56 = 72$ is a calculation.

2a. 40cm^2

3a. $D = 2n$

4a. 30 children ($6 \times 5 = 30$)

Expected

5a. $9 + 3y$ is an expression; $V = 4r + s$ is a formula; $25 = 100 \div 4$ is a calculation.

6a. 9.2cm

7a. $a = b \times b$

8a. £6 for 8 miles ($0.75 \times 8 = 6$)

Greater Depth

9a. $5(g - m)$ is an expression; $S = d \div t$ and $C = 2r^2$ are formulae; $72 = (12 \times 3) \times 2$ is a calculation.

10a. 33cm^3

11a. $a = 2n \times 0.45$

12a. 23 ($92 \div 2^2$)

Reasoning and problem solving

Developing

1a. Various answers, for example:

$$p = a + b + c + d = 22\text{cm}$$

2a. Yes; he only needs 12m (2×6).

3a. A; this shows water $\times 5$ and bleach $\times 2$.

Expected

4a. Various answers, for example:

$$p = a + b + 2c + d + e = 35\text{cm}$$

5a. Yes; she has exactly 650ml (50×13).

6a. A and C; B shows time being divided by distance.

Greater Depth

7a. Various answers, for example:

$$v = a \times b \times c = 216\text{cm}^3$$

8a. Yes; the puppy needs at least 9 minutes of exercise ($18 \div 2$).

9a. A and C; B shows everything being divided by 2.