

2H

1 a $x^2 + x - 12$ b $x^2 - 49$ c $5x + 21$

2 $(x^2 + 14x + 49) \text{ cm}^2$

3 $(x^2 + x - 2) \text{ cm}^2$

4 a $3n^2 + 24n + 48$ b 8

2I-2J

1 a $t = \frac{2 + ag}{T}$ b $g = \frac{Tt - 2}{a}$ c $a = \frac{Tt - 2}{g}$

2 a $x = \frac{Rc}{a + b}$ b $x = \pm \sqrt{z + 8pq}$

c $x = \pm \sqrt{t^2 + w^2} + s$ d $x = \frac{36a}{G^2}$

3 Both students are correct. Beverley divided by 3 first whereas Jez expanded the brackets.

The two answers are equivalent.

4 $Q = \frac{1}{2} \left(\frac{P}{y - x} + R \right)$ or equivalent