

Build Tasks Answers



1. $y = 6(7) + 40 = 82$

2. $y = 1.2(8) + 3 = 12.6$, i.e. \$12 600.

3. $y = 0.4(15) + 1 = 7$ kg

4. Interpolation (7 is within 0–20).

5. Extrapolation – 25 is outside 0–10, so there is no evidence the trend continues past the data.

6. $m = \frac{26 - 14}{6 - 2} = \frac{12}{4} = 3$

7. $y = 3x + 8$

8. $y = 3(10) + 8 = 38$

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9. $y = 3(14) + 150 = 192$ ms

10. $y = 3(40) + 150 = 270$ ms.
Caution: extrapolation – 40 is far outside the 10–18 data range.

11. Weak correlation means points sit far from the line, so predictions are less certain.

12. The line is a model, not a guarantee – predictions are estimates, not certain values.