

Solving Problems Using Equations – Answers

How old is Tom

- 1) (a) Ann: $2x$, Jerry: $2x + 4$ (b) $x = 9$
- 2) Tom is 7
- 3) $x + x + x + 7 + x + 7 = 62$ $x = 12$
- 4) (a) $x - 8$ (b) $2(x - 8) + 3x = 144$ $x = 32$
- 5) (a) $7 - x$ hours (b) $70x + 40(7 - x) = 415$ $x = 4.5$
- 6) (a) $3(x + 8)$ or $x + 32$ (b) $x = 4$
- 7) $6(x + 12) = 8x$ $x = 36$
- 8) (a) $2(x + 60)$ (b) $8x$ (c) $x = 25$
- 9) Tom is 11
- 10) Tom is 6
- 11) $3x = x + 18$ $x = 9$
- 12) Tom is 6
- 13) Tom is 16