

1. (a) Solve $\frac{2y}{2} = \frac{8}{2}$

$y = \dots\dots\dots 4 \dots\dots\dots$
(1)

(b) Solve $t - 4 = 7$
 $+4 \quad +4$

$t = \dots\dots\dots 11 \dots\dots\dots$
(1)

(c) Solve $\frac{x}{4} = 3$
 $\times 4 \quad \times 4$

$x = \dots\dots\dots 12 \dots\dots\dots$
(1)
(3 marks)

2. (a) Solve $\frac{y}{3} = 6$

$y = \dots\dots\dots 18 \dots\dots\dots$
(1)

(b) Solve $7y = 54$

$y = \dots\dots\dots 7.7 \dots\dots\dots$ (1 dp)
(1)

(c) Solve $2t - 5 = 9$

$2t = 14$

$t = \dots\dots\dots 7 \dots\dots\dots$
(2)
(4 marks)

3. (a) Solve $4w = 20$

$w = \dots 5 \dots$
(1)

(b) Solve $x - 6 = 3$

$x = \dots 9 \dots$
(1)

(c) Solve $\frac{y}{3} = 7$

$y = \dots 21 \dots$
(1)

(3 marks)

4. (a) Solve $3x = 12$

$x = \dots 4 \dots$
(1)

(b) Solve $y - 7 = 5$

$y = \dots 12 \dots$
(1)

(c) Solve $2t + 8 = 3$

$2t = -5$

$t = \dots -2.5 \dots$
(2)

(d) Solve $\frac{2y}{5} = 4$

$2y = 20$

$y = \dots 10 \dots$
(2)

(3 marks)

5. (a) Solve $6g = 18$

$g = \dots\dots\dots 3 \dots\dots\dots$
(1)

(b) Solve $y + 5 = 12$

$y = \dots\dots\dots 7 \dots\dots\dots$
(1)

(c) Solve $\frac{x}{4} = 3$

$x = \dots\dots\dots 12 \dots\dots\dots$
(1)

(d) Solve $5h + 7 = 17$

$5h = 10$

$h = \dots\dots\dots 2 \dots\dots\dots$
(2)

(5 marks)

6. (a) Solve $b - 7 = 12$

$b = \dots\dots\dots 19 \dots\dots\dots$
(1)

(b) Solve $5e = 40$

$e = \dots\dots\dots 8 \dots\dots\dots$
(1)

(c) Solve $4m + 6 = 15$

$4m = 9$
 $m = \frac{9}{4}$

$m = \dots\dots\dots 2.25 \dots\dots\dots$
(2)

(d) Solve $5w - 6 = 10$

$5w = 16$
 $w = \frac{16}{5}$

$w = \dots\dots\dots 3.2 \dots\dots\dots$
(2)

(6 marks)

7. (a) Solve

$$4x + 1 = 9$$

$$4x = 8$$

$$x = 2$$

$$x = \dots 2 \dots$$

(2)

(b) Solve

$$2x - 5 = 4$$

$$2x = 9$$

$$x = \dots 4.5 \dots$$

(2)

(c) Solve

$$2y - 1 = 12$$

$$2y = 13$$

$$y = \dots 6.5 \dots$$

(2)

(6 marks)

8. (a) Solve

$$4x + 1 = 19$$

$$4x = 18$$

$$x = 4.5$$

$$x = \dots 4.5 \dots$$

(2)

(b) Solve

$$4x + 3 = 19$$

$$4x = 16$$

$$x = \dots 4 \dots$$

(2)

(c) Solve

$$2q + 7 = 1$$

$$2q = -6$$

$$q = -3$$

$$q = \dots -3 \dots$$

(2)

(6 marks)

9. (a) Solve

$$x + x + x = 15$$

$$x = \dots\dots\dots 5 \dots\dots\dots$$

(2)

(b) Solve

$$6x - 7 = 38$$

$$6x = 45$$

$$x = \frac{45}{6} = \frac{15}{2}$$

$$x = \dots\dots\dots 7.5 \dots\dots\dots$$

(2)

(c) Solve

$$7x + 18 = 74$$

$$7x = 56$$

$$x = \dots\dots\dots 8 \dots\dots\dots$$

(2)

(6 marks)

10. (a) Solve

$$2y + 3 = 8$$

$$2y = 5$$

$$y = \dots\dots\dots 2.5 \dots\dots\dots$$

(2)

(b) Solve

$$5(t - 3) = 25$$

$$t - 3 = 5$$

$$t = \dots\dots\dots 8 \dots\dots\dots$$

(2)

(c) Solve

$$4(5y - 2) = 48$$

$$5y - 2 = 12$$

$$5y = 14$$

$$y = \frac{14}{5}$$

$$y = \dots\dots\dots 2.8 \dots\dots\dots$$

(2)

(6 marks)

11. Solve

$$\begin{array}{r} 13x + 1 = 11x + 9 \\ -11x \quad -11x \end{array}$$

$$\begin{array}{r} 2x + 1 = 9 \\ -1 \quad -1 \\ \hline 2x = 8 \\ \frac{2}{2} \quad \frac{8}{2} \\ \hline x = 4 \end{array}$$

$$x = \dots\dots\dots 4 \dots\dots\dots$$

(3 marks)

12. Solve

$$\begin{array}{r} 5t - 4 = 3t + 6 \\ -3t \quad -3t \end{array}$$

$$\begin{array}{r} 2t - 4 = 6 \\ \hline 2t = 10 \\ \frac{2}{2} \quad \frac{10}{2} \end{array}$$

$$t = \dots\dots\dots 5 \dots\dots\dots$$

(3 marks)

13. Solve

$$4y + 3 = 2y + 8$$

$$\begin{array}{r} 2y + 3 = 8 \\ 2y = 5 \\ y = 2.5 \end{array}$$

(3 marks)

14. Solve

$$5y + 1 = 3y + 13$$

$$2y + 1 = 13$$

$$2y = 12$$

$$y = 6$$

$$y = \overset{6}{\dots\dots\dots}$$

(3 marks)

15. Solve

$$3y + 10 = 5y + 3$$

$$10 = 2y + 3$$

$$7 = 2y$$

$$3.5 = y$$

$$y = \overset{3.5}{\dots\dots\dots}$$

(3 marks)

16. Solve

$$2y + 17 = 6y + 5$$

$$17 = 4y + 5$$

$$12 = 4y$$

$$y = 3$$

$$y = \overset{3}{\dots\dots\dots}$$

(3 marks)
