



To be completed on loose-leaf paper.



**Aims:**

- To provide ongoing revision of skills and concepts
- To develop procedural knowledge and fluency.

Need help? →

① Solve each of the following equations.

a  $x + 6 = 8$

b  $x - 5 = 9$

c  $4y = 12$

d  $-3x = -7$

e  $2x + 3 = 7$

f  $4a - 5 = -9$

② Two less than three times a number is sixteen.  
Write an equation and solve it to find the unknown number.

③ When a number is decreased by five and the resulting number is divided by four the answer is twelve. Write an equation and solve it to find the number.

④ Solve each of the following equations.

a  $2x = x + 1$

b  $3b = 2b - 7$

c  $3x - 2 = x + 5$

d  $7x + 1 = 3x - 3$

⑤ Solve each of the following equations. Check your answer.

a  $\frac{x+1}{3} = 2$

b  $\frac{a-1}{5} = 2$

c  $\frac{x-3}{4} = -2$

d  $\frac{2x+3}{5} = 3$

⑥ Solve each of the following equations.

a  $\frac{2-a}{3} = 5$

b  $\frac{6-3y}{2} = 9$

⑦ Solve each of the following equations.

a  $2(x+3) = 6$

b  $2(x-6) = 4$

c  $2(2x+1) = 7$

⑧ The heights (in cm) of players in a team of footballers are:

168 175 174 168 162 168 170 180 175 168 182 174

a What is the modal height?

b What is the range?

c What is the mean height of the footballers?

**ANSWERS:** You must show the mathematics used to get these answers. Simply writing the answer is not enough.

① (a) 2 (b) 14 (c) 3 (d)  $\frac{7}{3}$  (e) 2 (f) -1    ②  $\frac{16}{3}$     ③ 53

④ (a) 1 (b) -7 (c)  $\frac{7}{2}$  (d) 6

⑤ (a) 5 (b) 11 (c) -5 (d) 6

⑥ (a) -13 (b) -4

⑦ (a) 0 (b) 8 (c)  $\frac{5}{4}$     ⑧ (a) 168 (b) 20 (c) 172