

## 2.1 Solving linear equations

1.  $X - 16 = 7$

2.  $-7 = x + 22$

3.  $\frac{3}{5}x + 17 = \frac{8}{5}x$

4.  $5x = 60$

5.  $\frac{x}{4} = 3$

6.  $\frac{3}{4}x = 6$

7.  $-x = -17$

8.  $5x + 6x = 33$

9.  $6 - 6x = -7x + 5$

10.  $3x - 12 + x + 2 = 5 + 3x + 2$

11.  $4(x - 30) - x = x - 6$

12.  $4 - (x - 3) - x = x - 6$

## 2.2 notes

1.  $7x + 1 = 10x - 29$

2.  $-3x + 4(x - 4) = -2x - 4$

3.  $3x - (2x + 7) = 8x + 2$

4.  $4(4 - 3x) = 32 - 8(x + 2)$

5.  $\frac{2}{3}x - \frac{1}{2}x = -\frac{1}{6}x - 2$

6.  $5x - 15 = 5(x - 3)$

7.  $2x + 3(x + 1) = 5x + 4$

8.  $\frac{x}{20} = \frac{25}{125}$

9.  $\frac{4}{x} = \frac{6}{9}$

10.  $\frac{x+4}{6} = \frac{x+10}{8}$

11.  $\frac{4}{x+1} = \frac{2}{x+7}$

12. What is 12% of 85?

13. 165% of what number is 363?

14. 108.8 is what percent of 128?