

Master Maths 8 Worksheet 27

Solving Equations 1

27

Name: _____

1. Find the following numbers.

- (a) This number is 7 more than 12.
- (b) If 24 is divided by this number the answer is 8.
- (c) If 6 is added to this number and the result is halved the answer is 9.
- (d) If this number is multiplied by 4, then 5 is subtracted from the result the answer is 23.

2. (a) Evie is six years older than Jess. The sum of their ages is 26. How old is Evie?

(b) A 16 metre length of timber is cut into two pieces. One is 4 metres longer than the other. What are the lengths of the two pieces of timber?

3. Solve the following equations.

(a) $x + 7 = 13$

(b) $y - 8 = 9$

(c) $4m = 24$

(d) $\frac{n}{3} = 7$

(e) $3x - 4 = 11$

(f) $5n + 9 = 39$

(g) $\frac{m}{5} + 3 = 7$

(h) $\frac{x - 2}{6} = 4$

(i) $3n - 5 = -17$

(j) $\frac{2x}{3} + 4 = 10$

(k) $3(m + 6) = 12$

(l) $\frac{2x + 7}{3} = 7$

(m) $4(2a - 9) = -4$

(n) $\frac{6n + 5}{4} = 5$

4. Write the following statements as equations and then solve.

(a) If a number, n , is multiplied by 3 and then 8 is added to the result the answer is 20.

(b) If a number, x , is divided by 7 and then 8 is subtracted from the result the answer is -6.