

CHARTERED ACCOUNTANCY - BUSINESS LEVEL 1.

EQUATIONS

1. If $20 - 3x = y$, solve for x when $y = 8$

A -4 B 9.3 C 4 D 12

2. Solve $3(2x - 1) = 27$

A 5 B -5 C 5.5 D 4

3. Solve $12 - 5(2x - 1) = 7$

A -1 B 2 C 1 D 0

4. Solve $x - 2y = 5$, $3x - y = 10$

A $x = -1$, $y = 3$ B $x = 1$, $y = 3$ C $x = -1$, $y = -3$ D $x = 3$, $y = -1$

5. Solve $(2x - 3)(x + 1) = 0$

A $-3/2, -1$ B $-3/2, -1$ C $3/2, -1$ D $3/2, 1$

6. Solve $2x^2 + x = 15$

A $5/2, -3$ B $-5/2, -3$ C $5/2, 3$ D $5/2, -2$

7. Solve $\frac{2x - 1}{x + 2} = \frac{3}{2}$

A -8 B 8 C $3/7$ D $8/7$

8. Find the gradient and intercept of $2x + 3y = 10$

A $2/3, 10/3$ B $2/3, -10/3$ C $-2/3, 10/3$ D $-2/3, -10/3$

9. Solve $2x - y = x - 2y = 9$

A 3, 3 B 3, -3 C -3, 3 D -3, -3.

11. The sum of three consecutive numbers is 30, what are the 3 numbers.

- A 10, 11, 9 B 9, 10, 11 C 11, 10, 9 D 8, 10, 12,

12. Solve $7x + 11 > 2x + 46$

- A $x = 5$ B $x < 5$ C $x > 5$ D $x > -5$

13. $12 - 5x < x + 6$

- A $x > 2$ B $x < 2$ C $x > 3$ D $x < -2$.

14. Find the equation of the straight line with gradient -3 and intercept 5

- A $y = 5x - 3$ B $y = -5x + 3$ C $y = -3x + 5$ D $y = 5x + 3$

15. Solve $2(5x - 3) > 7x + 15$.

- A $x < 7$ B $x > -3$ C $x < -3$ D $x > 7$.

16. The length of a rectangle is 5m more than its width. Find the width, if the perimeter is 50m.

- A 20 B 40 C 25 D 10

17. Solve $x^2 = 5x - 6$

- A 2, -3 B -2, 3 C -2, -3 D 2, 3

18. In a rectangle the length is twice the width, and the area is 50 m^2 . Find the width.

- A 10 B 5 C 15 D 25

19. If $v^2 = u^2 + 2as$, find a when $v = 3$, $u = 2$ and $s = 2$

- A 2.5 B 5 C 1.25 D 1.2

20. Solve $\frac{x}{2} = \frac{1}{6} + \frac{x}{3}$

- A -2 B 2 C -1 D 1