

## Year 8 Class 15 questions

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Q1

Solve the equation to find  $c$ .

$$-2(12 - 3c) = -66$$

$$c = \boxed{\phantom{00}}$$

Q7

Solve the equation to find  $a$ .

$$-5(3a + 2) = -55$$

$$a = \boxed{\phantom{00}}$$

Q2

Solve the equation to find  $y$ .

$$-2(16 - y) = -52$$

$$y = \boxed{\phantom{00}}$$

Q8

Solve the equation to find  $c$ .

$$-6(2c + 4) = -72$$

$$c = \boxed{\phantom{00}}$$

Q3

Solve the equation to find  $a$ .

$$12(a - 5) = 3(5a + 2)$$

$$a = \boxed{\phantom{00}}$$

Q9

Solve the equation to find  $q$ .

$$-4(2q + 1) = 20$$

$$q = \boxed{\phantom{00}}$$

Q4

Solve the equation to find  $y$ .

$$12(y + 5) = 7(2y - 3)$$

$$y = \boxed{\phantom{00}}$$

Q10

Solve the equation to find  $y$ .

$$7(y - 7) = 2(13 + y)$$

$$y = \boxed{\phantom{00}}$$

Q5

Solve the equation to find  $x$ .

$$7x + 5(3 - 2x) = 18$$

$$x = \boxed{\phantom{00}}$$

Q11

Solve the equation to find  $a$ .

$$5(a - 3) = 2(6 + a)$$

$$a = \boxed{\phantom{00}}$$

Q6

Solve the equation to find  $a$ .

$$\frac{4a}{3} = -24$$

$$a = \boxed{\phantom{00}}$$

Q12

Solve the equation to find  $y$ .

$$12(7 - y) = 8(y - 1)$$

$$y = \boxed{\phantom{00}}$$

Q13

Solve the equation to find  $y$ .

$$2(3y + 5) - 2(4y - 5) = 0$$

$$y = \boxed{\phantom{00}}$$

Q14

Solve the equation to find  $b$ .

$$7(2b - 4) - 2(1 + 5b) = 0$$

$$b = \boxed{\phantom{00}}$$

Q15

Solve the equation to find  $b$ .

$$2(8 - 5b) + 3(4b - 9) = 0$$

$$b = \boxed{\phantom{00}}$$

Q16

Solve the equation to find  $a$ .

$$\frac{a + 3}{5} = 6$$

$$a = \boxed{\phantom{00}}$$

Q17

Solve the equation to find  $x$ .

$$\frac{x - 4}{3} = 21$$

$$x = \boxed{\phantom{00}}$$

Q18

Solve the equation to find  $x$ .

$$\frac{x - 5}{5} = -4$$

$$x = \boxed{\phantom{00}}$$

Q19

Solve the equation to find  $z$ .

$$-62 = 2(5z + 14)$$

$$z = \boxed{\phantom{00}}$$

Q20

Solve the equation to find  $b$ .

$$-260 = 4(6b - 11)$$

$$b = \boxed{\phantom{00}}$$

Q21

Solve the equation to find  $c$ .

$$-192 = -2(12c - 12)$$

$$c = \boxed{\phantom{00}}$$

Q22

Solve the equation to find  $y$ .

$$3(2y + 5) = 2(4y - 3)$$

$$y = \boxed{\phantom{00}}$$

Q23

Solve the equation to find  $y$ .

$$2(3y + 5) = 2(4y - 5)$$

$$y = \boxed{\phantom{00}}$$

Q24

Solve the equation to find  $z$ .

$$9(8 - z) = 5(7 - 2z)$$

$$z = \boxed{\phantom{00}}$$

Q25

Solve the equation to find  $x$ .

$$4(2x - 2) = 3(5x + 8) + 3$$

$$x = \boxed{\phantom{00}}$$

Q26

Solve the equation to find  $y$ .

$$9(y - 8) = 3(4y + 1) + 3$$

$$y = \boxed{\phantom{00}}$$

Q27

Solve the equation to find  $a$ .

$$40 - 5(4 - 3a) = 5(2a + 7)$$

$$a = \boxed{\phantom{00}}$$

Q28

Solve the equation to find  $a$ .

$$\frac{2a + 1}{3} = 5$$

$$a = \boxed{\phantom{00}}$$

Q29

Solve the equation to find  $a$ .

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

$$a = \boxed{\phantom{00}}$$

Q30

Solve the equation to find  $b$ .

$$\frac{4b - 1}{15} = -3$$

$$b = \boxed{\phantom{00}}$$