

GCSE MATHS • GRADE 2

MATHS



MODEL ANSWERS

SOLVING ONE STEP EQUATIONS

SCORE

/185

PERCENTAGE

%

STEMUP

1 Solve $m + 28 = 56$

$$m = 56 - 28$$

$$m = 28$$

1

 / 1

2 Solve $6b = 60$

$$b = 60 \div 6$$

$$b = 10$$

1

 / 1

3 Solve $y + 28 = 34$

$$y = 34 - 28$$

$$y = 6$$

1

 / 1

4 Solve $m + 16 = 25$

$$m = 25 - 16$$

$$m = 9$$

/ 1

5 Solve $4y = 4$

$$y = 4 \div 4$$

$$y = 1$$

/ 1

6 Solve $m + 14 = 54$

$$m = 54 - 14$$

$$m = 40$$

/ 1

7 Solve $46 = k + 34$

$$k = 46 - 34$$

$$k = 12$$

/ 1

8 Solve $5p = 40$

$$p = 40 \div 5$$

$$p = 8$$

/ 1

9 Solve $p + 3 = 23$

$$p = 23 - 3$$

$$p = 20$$

/ 1

10 Solve $41 = p + 27$

$$p = 41 - 27$$

$$p = 14$$

/ 1

11 Solve $5b = 60$

$$b = 60 \div 5$$

$$b = 12$$

/ 1

12 Solve $a - 13 = 12$

$$a = 12 + 13$$

$$a = 25$$

/ 1

13 Solve $4 = k + 8$

$$k = 4 - 8$$

$$k = -4$$

/ 1

14 Solve $9y = 27$

$$y = 27 \div 9$$

$$y = 3$$

/ 1

15 Solve $n + 22 = 32$

$$n = 32 - 22$$

$$n = 10$$

/ 1

16 Solve $-1 = y + 4$

$$y = -1 - 4$$

$$y = -5$$

/ 1

17 Solve $11m = 121$

$$m = 121 \div 11$$

$$m = 11$$

/ 1

18 Solve $18 + m = 45$

$$m = 45 - 18$$

$$m = 27$$

/ 1

19 Solve $34 = a + 29$

$$a = 34 - 29$$

$$a = 5$$

/ 1

20 Solve $2n = 6$

$$n = 6 \div 2$$

$$n = 3$$

/ 1

21 Solve $10 + n = 8$

$$n = 8 - 10$$

$$n = -2$$

/ 1

22 Solve $8 = b + 16$

$$b = 8 - 16$$

$$b = -8$$

1

 / 1

23 Solve $\frac{n}{7} = 14$

$$n = 14 \times 7$$

$$n = 98$$

1

 / 1

24 Solve $22 + p = 42$

$$p = 42 - 22$$

$$p = 20$$

1

 / 1

25 Solve $41 = k + 35$

$$k = 41 - 35$$

$$k = 6$$

1

 / 1

26 Solve $\frac{k}{9} = 12$

$$k = 12 \times 9$$

$$k = 108$$

1

 / 1

27 Solve $p - 30 = -7$

$$p = -7 + 30$$

$$p = 23$$

1

 / 1

28 Solve $33 = y + 3$

$$y = 33 - 3$$

$$y = 30$$

/ 1

29 Solve $\frac{y}{3} = 15$

$$y = 15 \times 3$$

$$y = 45$$

/ 1

30 Solve $n - 29 = -37$

$$n = -37 + 29$$

$$n = -8$$

/ 1

31 Solve $27 = m + 23$

$$m = 27 - 23$$

$$m = 4$$

1

 / 1

32 Solve $\frac{b}{7} = 2$

$$b = 2 \times 7$$

$$b = 14$$

1

 / 1

33 Solve $11b = -66$

$$b = -66 \div 11$$

$$b = -6$$

1

 / 1

34 Solve $56 = 7y$

$$y = 56 \div 7$$

$$y = 8$$

1

 / 1

35 Solve $\frac{m}{3} = 8$

$$m = 8 \times 3$$

$$m = 24$$

1

 / 1

36 Solve $3m = -36$

$$m = -36 \div 3$$

$$m = -12$$

1

 / 1

37 Solve $-16 = 4x$

$$x = -16 \div 4$$

$$x = -4$$

1

 / 1

38 Solve $\frac{p}{8} = 12$

$$p = 12 \times 8$$

$$p = 96$$

1

 / 1

39 I think of a number and add 12.

The answer is 44.

Write an equation, then solve it to find my number.

$$n = 44 - 12$$

$$n + 12 = 44, n = 32$$

1

 / 1

40 Solve $-48 = 6p$

$$p = -48 \div 6$$

$$p = -8$$

1

 / 1

41 Solve $4n = -32$

$$n = -32 \div 4$$

$$n = -8$$

2

 / 2

42 I think of a number and add 8.

The answer is 35.

Write an equation, then solve it to find my number.

$$n = 35 - 8$$

$$n + 8 = 35, n = 27$$

2

 / 2

43 Solve $-5 = 5a$

$$a = -5 \div 5$$

$$a = -1$$

$$\boxed{2} / 2$$

44 Solve $6y = -48$

$$y = -48 \div 6$$

$$y = -8$$

$$\boxed{2} / 2$$

45 I think of a number and add 2.

The answer is 8.

Write an equation, then solve it to find my number.

$$n = 8 - 2$$

$$n + 2 = 8, n = 6$$

$$\boxed{2} / 2$$

46 Solve $21 = 7b$

$$b = 21 \div 7$$

$$b = 3$$

/ 2

47 Solve $5k = -15$

$$k = -15 \div 5$$

$$k = -3$$

/ 2

48 I think of a number and subtract 7.

The answer is 26.

Write an equation, then solve it to find my number.

$$n = 26 + 7$$

$$n - 7 = 26, n = 33$$

/ 2

- 49 Chloe has some sweets. After eating 15 sweets, Chloe has 31 sweets left.
Let s be the number of sweets Chloe started with.
Write an equation and solve it to find s .

$$s = 31 + 15$$

$$s - 15 = 31, s = 46$$

2

 / 2

- 50 Solve $10a = -70$

$$a = -70 \div 10$$

$$a = -7$$

2

 / 2

- 51 I think of a number and multiply it by 11.
The answer is 132.
Write an equation, then solve it to find my number.

$$n = 132 \div 11$$

$$11n = 132, n = 12$$

2

 / 2

52 Solve $p + 9.4 = 18.7$

$$p = 18.7 - 9.4$$

$$p = 9.3$$

2

 / 2

53 Solve $8k = -64$

$$k = -64 \div 8$$

$$k = -8$$

2

 / 2

54 I think of a number and multiply it by 10.

The answer is 220.

Write an equation, then solve it to find my number.

$$n = 220 \div 10$$

$$10n = 220, n = 22$$

2

 / 2

55 Solve $x - 2.1 = 7.9$

$$x = 7.9 + 2.1$$

$$x = 10$$

/ 2

56 Chloe has some sweets. After eating 7 sweets, Chloe has 36 sweets left.

Let s be the number of sweets Chloe started with.

Write an equation and solve it to find s .

$$s = 36 + 7$$

$$s - 7 = 36, s = 43$$

/ 2

57 I think of a number and divide it by 9.

The answer is 21.

Write an equation, then solve it to find my number.

$$n = 21 \times 9$$

$$n \div 9 = 21, n = 189$$

/ 2

58 Solve $y + 7.7 = 15$

$$y = 15 - 7.7$$

$$y = 7.3$$

$$\boxed{2} / 2$$

59 Solve $\frac{k}{2} = -3$

$$k = -3 \times 2$$

$$k = -6$$

$$\boxed{2} / 2$$

60 I think of a number and divide it by 11.

The answer is 35.

Write an equation, then solve it to find my number.

$$n = 35 \times 11$$

$$n \div 11 = 35, n = 385$$

$$\boxed{2} / 2$$

61 Solve $m + 9.1 = 15$

$$m = 15 - 9.1$$

$$m = 5.9$$

/ 2

62 Solve $\frac{a}{7} = -6$

$$a = -6 \times 7$$

$$a = -42$$

/ 2

63 I think of a number and divide it by 11.

The answer is 15.

Write an equation, then solve it to find my number.

$$n = 15 \times 11$$

$$n \div 11 = 15, n = 165$$

/ 2

64 Solve $k - 4.1 = 8$

$$k = 8 + 4.1$$

$$k = 12.1$$

$$\boxed{2} / 2$$

65 Solve $\frac{m}{5} = -5$

$$m = -5 \times 5$$

$$m = -25$$

$$\boxed{2} / 2$$

66 I think of a number and divide it by 12.

The answer is 25.

Write an equation, then solve it to find my number.

$$n = 25 \times 12$$

$$n \div 12 = 25, n = 300$$

$$\boxed{2} / 2$$

67 Solve $x - 5.3 = 1.9$

$$x = 1.9 + 5.3$$

$$x = 7.2$$

$$\boxed{2} / 2$$

68 Solve $\frac{x}{2} = -5$

$$x = -5 \times 2$$

$$x = -10$$

$$\boxed{2} / 2$$

69 I think of a number and divide it by 11.

The answer is 37.

Write an equation, then solve it to find my number.

$$n = 37 \times 11$$

$$n \div 11 = 37, n = 407$$

$$\boxed{2} / 2$$

70 Solve $x + 8.8 = 18.2$

$$x = 18.2 - 8.8$$

$$x = 9.4$$

/ 2

71 Solve $\frac{n}{5} = -9$

$$n = -9 \times 5$$

$$n = -45$$

/ 2

- 72 Leo saves £8 more and then has £19 in total.
Let m be the amount, in pounds, Leo had to start with.
Write an equation and solve it to find m .

$$m = 19 - 8$$

$$m + 8 = 19, m = 11$$

/ 2

73 Solve $3n = 11.4$

$$n = 11.4 \div 3$$

$$n = 3.8$$

$$\boxed{2} / 2$$

74 Solve $8 - k = 3$

$$k = 8 - 3$$

$$k = 5$$

$$\boxed{2} / 2$$

75 Hannah saves £3 more and then has £15 in total.

Let m be the amount, in pounds, Hannah had to start with.

Write an equation and solve it to find m .

$$m = 15 - 3$$

$$m + 3 = 15, m = 12$$

$$\boxed{2} / 2$$

76 Solve $4x = 24.4$

$$x = 24.4 \div 4$$

$$x = 6.1$$

/ 3

77 Solve $16 - a = 11$

$$a = 16 - 11$$

$$a = 5$$

/ 3

78 Mason saves £6 more and then has £22 in total.

Let m be the amount, in pounds, Mason had to start with.

Write an equation and solve it to find m .

$$m = 22 - 6$$

$$m + 6 = 22, m = 16$$

/ 3

79 Solve $5y = 19$

$$y = 19 \div 5$$

$$y = 3.8$$

/ 3

80 Solve $39 - p = 34$

$$p = 39 - 34$$

$$p = 5$$

/ 3

81 Chloe saves £9 more and then has £39 in total.

Let m be the amount, in pounds, Chloe had to start with.

Write an equation and solve it to find m .

$$m = 39 - 9$$

$$m + 9 = 39, m = 30$$

/ 3

82 Solve $8x = 1$

$$x = 1 \div 8$$

$$x = 0.125$$

$$\boxed{3} / 3$$

83 Solve $36 - x = 1$

$$x = 36 - 1$$

$$x = 35$$

$$\boxed{3} / 3$$

84 Solve $-6m = -42$

$$m = -42 \div -6$$

$$m = 7$$

$$\boxed{3} / 3$$

85 Solve $2p = 7$

$$p = 7 \div 2$$

$$p = 3.5$$

3

 / 3

86 Solve $21 - a = 13$

$$a = 21 - 13$$

$$a = 8$$

3

 / 3

87 Solve $-4m = -20$

$$m = -20 \div -4$$

$$m = 5$$

3

 / 3

88 Solve $5b = 2$

$$b = 2 \div 5$$

$$b = 0.4$$

$$\boxed{3} / 3$$

89 Solve $5b = 1$

$$b = 1 \div 5$$

$$b = 0.2$$

$$\boxed{3} / 3$$

90 Solve $-5y = 10$

$$y = 10 \div -5$$

$$y = -2$$

$$\boxed{3} / 3$$

91 Solve $4y = 2$

$$y = 2 \div 4$$

$$y = 0.5$$

3

 / 3

92 Solve $8b = 25$

$$b = 25 \div 8$$

$$b = 3.125$$

3

 / 3

93 Solve $\frac{a}{-9} = 4$

$$a = 4 \times -9$$

$$a = -36$$

3

 / 3

94 Solve $8k = 10$

$$k = 10 \div 8$$

$$k = 1.25$$

3

 / 3

95 Solve $8p = 2$

$$p = 2 \div 8$$

$$p = 0.25$$

3

 / 3

96 Solve $\frac{a}{-9} = 5$

$$a = 5 \times -9$$

$$a = -45$$

3

 / 3

97 Solve $4a = 3$

$$a = 3 \div 4$$

$$a = 0.75$$

$$\boxed{3} / 3$$

98 Solve $\frac{b}{-8} = -3$

$$b = -3 \times -8$$

$$b = 24$$

$$\boxed{3} / 3$$

99 Solve $\frac{a}{-8} = 6$

$$a = 6 \times -8$$

$$a = -48$$

$$\boxed{3} / 3$$

100 Solve $\frac{m}{-2} = -10$

$$m = -10 \times -2$$

$$m = 20$$

$$\boxed{3} / 3$$