2.108 Substitution and Formulae in Words: 2-hour Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The cost of a party entertainer, C pounds, is given by C = 12 + 7n, where n is the number of children. What is the cost for 4 children?

- ☐ A) £39
- ☐ B) £40
- ☐ C) £336
- ☐ D) £76
- ☐ E) £55

---

2 The cost of a hall hire, C pounds, is given by C = 8 + 2n, where n is the number of hours. What is the cost for 2 hours?

- ☐ A) £18.00
- ☐ B) £4.00
- ☐ C) £13.00
- ☐ D) £20.00
- ☐ E) £12.00

---

3 The cost of a party entertainer, C pounds, is given by C = 5 + 6n, where n is the number of children. What is the cost for 13 children?

- ☐ A) £71.00
- ☐ B) £84.00
- ☐ C) £83.00
- ☐ D) £143.00
- ☐ E) £390.00

© Revision Library | revisionlibrary.co.uk

4 Work out the value of $6x + 9y$ when $x = 8$ and $y = 4$.

- [ ] A) 162
- [ ] B) 96
- [ ] C) 83
- [ ] D) 84
- [ ] E) 180

---

5 The cost of a taxi, C pounds, is given by $C = 5 + 2n$, where n is the number of miles. What is the cost for 15 miles?

- [ ] A) £105.00
- [ ] B) £77.00
- [ ] C) £36.00
- [ ] D) £22.00
- [ ] E) £35.00

---

6 The cost of a taxi, C pounds, is given by $C = 10 + 4n$, where n is the number of miles. What is the cost for 15 miles?

- [ ] A) £70
- [ ] B) £600
- [ ] C) £154
- [ ] D) £210
- [ ] E) £29

---

7 Work out the value of $3x + 7y$ when $x = 5$ and $y = 9$.

- [ ] A) 140
- [ ] B) 79
- [ ] C) 62
- [ ] D) 78
- [ ] E) 24

© Revision Library | revisionlibrary.co.uk

8 The cost of a hall hire, C pounds, is given by C = 8 + 2n, where n is the number of hours. What is the cost for 10 hours?

- [ ] A) £160.00
- [ ] B) £82.00
- [ ] C) £28.00
- [ ] D) £29.00
- [ ] E) £100.00

---

9 The cost of a hall hire, C pounds, is given by C = 15 + 8n, where n is the number of hours. What is the cost for 5 hours?

- [ ] A) £56.00
- [ ] B) £115.00
- [ ] C) £28.00
- [ ] D) £83.00
- [ ] E) £55.00

---

10 Work out the value of 3x + 8y when x = 5 and y = 3.

- [ ] A) 88
- [ ] B) 39
- [ ] C) 360
- [ ] D) 40
- [ ] E) 49

---

11 Work out the value of 2n + 8 when n = 3.

- [ ] A) -2
- [ ] B) 22
- [ ] C) 14
- [ ] D) 30
- [ ] E) 31

© Revision Library | revisionlibrary.co.uk

12 The cost of a party entertainer, C pounds, is given by C = 25 + 2n, where n is the number of children. What is the cost for 13 children?

- [ ] A) £51.00
- [ ] B) £650.00
- [ ] C) £327.00
- [ ] D) £52.00
- [ ] E) £351.00

---

13 Work out the value of 5(n + 7) when n = 8.

- [ ] A) 47
- [ ] B) 515
- [ ] C) 280
- [ ] D) 75
- [ ] E) 20

---

14 The cost of a party entertainer, C pounds, is given by C = 8 + 5n, where n is the number of children. What is the cost for 9 children?

- [ ] A) £53.00
- [ ] B) £45.00
- [ ] C) £54.00
- [ ] D) £77.00
- [ ] E) £117.00

---

15 Work out the value of 42 - 9n when n = 2.

- [ ] A) 35
- [ ] B) 60
- [ ] C) 24
- [ ] D) 66
- [ ] E) 23

© Revision Library | revisionlibrary.co.uk

16 Work out the value of $7x + 6y$ when $x = 7$ and $y = 2$.

- [ ] A) 22
- [ ] B) 139
- [ ] C) 56
- [ ] D) 117
- [ ] E) 61

---

17 The cost of a hall hire, C pounds, is given by $C = 5 + 3n$, where n is the number of hours. What is the cost for 15 hours?

- [ ] A) £51
- [ ] B) £45
- [ ] C) £120
- [ ] D) £50
- [ ] E) £78

---

18 Work out the value of $9n + 4$ when $n = 9$.

- [ ] A) 77
- [ ] B) 85
- [ ] C) 103
- [ ] D) 117
- [ ] E) 22

---

19 The cost of a party entertainer, C pounds, is given by $C = 25 + 12n$, where n is the number of children. What is the cost for 13 children?

- [ ] A) £50.00
- [ ] B) £481.00
- [ ] C) £181.00
- [ ] D) £3,900.00
- [ ] E) £337.00

© Revision Library | revisionlibrary.co.uk

20 Work out the value of 14 - 2n when n = 6.

- [ ] A) 1
- [ ] B) 18
- [ ] C) 72
- [ ] D) 3
- [ ] E) 2

---

21 The cost of a party entertainer, C pounds, is given by C = 20 + 8n, where n is the number of children. What is the cost for 4 children?

- [ ] A) £112.00
- [ ] B) £32.00
- [ ] C) £640.00
- [ ] D) £52.00
- [ ] E) £88.00

---

22 The cost of a taxi, C pounds, is given by C = 8 + 4n, where n is the number of miles. What is the cost for 13 miles?

- [ ] A) £60
- [ ] B) £156
- [ ] C) £59
- [ ] D) £108
- [ ] E) £52

---

23 Work out the value of 4n + 4 when n = 7.

- [ ] A) 56
- [ ] B) 32
- [ ] C) 24
- [ ] D) 31
- [ ] E) 51

© Revision Library | revisionlibrary.co.uk

24 The cost of a taxi, C pounds, is given by C = 10 + 12n, where n is the number of miles. What is the cost for 9 miles?

- [ ] A) £102.00
- [ ] B) £1,080.00
- [ ] C) £117.00
- [ ] D) £198.00
- [ ] E) £118.00

---

25 Work out the value of 64 - 9n when n = 5.

- [ ] A) 109
- [ ] B) 31
- [ ] C) 275
- [ ] D) 19
- [ ] E) 60

---

26 The cost of a taxi, C pounds, is given by C = 5 + 2n, where n is the number of miles. What is the cost for 2 miles?

- [ ] A) £4.00
- [ ] B) £20.00
- [ ] C) £9.00
- [ ] D) £14.00
- [ ] E) £12.00

---

27 Work out the value of 4x + 2y when x = 9 and y = 6.

- [ ] A) 49
- [ ] B) 42
- [ ] C) 48
- [ ] D) 90
- [ ] E) 75

© Revision Library | revisionlibrary.co.uk

28 The cost of a hall hire, C pounds, is given by C = 25 + 5n, where n is the number of hours. What is the cost for 8 hours?

- [ ] A) £1,000.00
- [ ] B) £38.00
- [ ] C) £240.00
- [ ] D) £205.00
- [ ] E) £65.00

---

29 Work out the value of 9n + 4 when n = 6.

- [ ] A) 50
- [ ] B) 58
- [ ] C) 57
- [ ] D) 78
- [ ] E) 100

---

30 The cost of a party entertainer, C pounds, is given by C = 30 + 5n, where n is the number of children. What is the cost for 4 children?

- [ ] A) £50
- [ ] B) £49
- [ ] C) £125
- [ ] D) £140
- [ ] E) £600

---

31 Work out the value of 4x + 5y when x = 2 and y = 8.

- [ ] A) 320
- [ ] B) 90
- [ ] C) 49
- [ ] D) 48
- [ ] E) 42

© Revision Library | revisionlibrary.co.uk

32 Work out the value of 51 - 8n when n = 4.

- [ ] A) 33
- [ ] B) 19
- [ ] C) 47
- [ ] D) 172
- [ ] E) 20

---

33 The cost of a taxi, C pounds, is given by C = 25 + 9n, where n is the number of miles. What is the cost for 13 miles?

- [ ] A) £442.00
- [ ] B) £2,925.00
- [ ] C) £143.00
- [ ] D) £334.00
- [ ] E) £142.00

---

34 Work out the value of 7x + 9y when x = 4 and y = 7.

- [ ] A) 171
- [ ] B) 85
- [ ] C) 91
- [ ] D) 90
- [ ] E) 176

---

35 Work out the value of 15 - 3n when n = 4.

- [ ] A) 8
- [ ] B) 48
- [ ] C) 16
- [ ] D) 4
- [ ] E) 3

© Revision Library | revisionlibrary.co.uk

36 The cost of a taxi, C pounds, is given by C = 15 + 9n, where n is the number of miles. What is the cost for 13 miles?

- [ ] A) £204.00
- [ ] B) £37.00
- [ ] C) £312.00
- [ ] D) £132.00
- [ ] E) £117.00

---

37 The cost of a party entertainer, C pounds, is given by C = 12 + 12n, where n is the number of children. What is the cost for 11 children?

- [ ] A) £144.00
- [ ] B) £1,584.00
- [ ] C) £264.00
- [ ] D) £143.00
- [ ] E) £132.00

---

38 Work out the value of $8n^2 + 9$ when n = 7.

- [ ] A) 65
- [ ] B) 121
- [ ] C) 401
- [ ] D) 3,145
- [ ] E) 383

---

39 The cost of a hall hire, C pounds, is given by C = 30 + 9n, where n is the number of hours. What is the cost for 3 hours?

- [ ] A) £57.00
- [ ] B) £27.00
- [ ] C) £99.00
- [ ] D) £58.00
- [ ] E) £117.00

© Revision Library | revisionlibrary.co.uk

40 Work out the value of 8(n + 4) when n = 5.

- [ ] A) 71
- [ ] B) 72
- [ ] C) 44
- [ ] D) 48
- [ ] E) 17

---

41 The cost of a party entertainer, C pounds, is given by C = 15 + 4n, where n is the number of children. What is the cost for 12 children?

- [ ] A) £48.00
- [ ] B) £228.00
- [ ] C) £63.00
- [ ] D) £184.00
- [ ] E) £720.00

---

42 The cost of a hall hire, C pounds, is given by C = 12 + 3n, where n is the number of hours. What is the cost for 11 hours?

- [ ] A) £396.00
- [ ] B) £165.00
- [ ] C) £135.00
- [ ] D) £45.00
- [ ] E) £33.00

---

43 Work out the value of 38 - 3n when n = 7.

- [ ] A) 1
- [ ] B) 42
- [ ] C) 59
- [ ] D) 245
- [ ] E) 17

© Revision Library | revisionlibrary.co.uk

44 The cost of a party entertainer, C pounds, is given by C = 30 + 12n, where n is the number of children. What is the cost for 12 children?

- [ ] A) £175.00
- [ ] B) £504.00
- [ ] C) £144.00
- [ ] D) £174.00
- [ ] E) £372.00

---

45 The cost of a hall hire, C pounds, is given by C = 25 + 3n, where n is the number of hours. What is the cost for 5 hours?

- [ ] A) £140
- [ ] B) £40
- [ ] C) £128
- [ ] D) £33
- [ ] E) £375

---

46 Work out the value of 3x + 6y when x = 6 and y = 2.

- [ ] A) 30
- [ ] B) 42
- [ ] C) 29
- [ ] D) 216
- [ ] E) 72

---

47 Work out the value of $3n^2 + 7$ when n = 7.

- [ ] A) 140
- [ ] B) 49
- [ ] C) 154
- [ ] D) 448
- [ ] E) 28

© Revision Library | revisionlibrary.co.uk

48 Work out the value of $5x + 5y$ when $x = 2$ and $y = 6$.

- [ ] A) 18
- [ ] B) 108
- [ ] C) 80
- [ ] D) 41
- [ ] E) 40

---

49 The cost of a hall hire, C pounds, is given by $C = 15 + 4n$, where n is the number of hours. What is the cost for 14 hours?

- [ ] A) £71.00
- [ ] B) £70.00
- [ ] C) £840.00
- [ ] D) £214.00
- [ ] E) £266.00

---

50 Work out the value of $5(n + 8)$ when $n = 6$.

- [ ] A) 19
- [ ] B) 70
- [ ] C) 38
- [ ] D) 240
- [ ] E) 514

---

51 The cost of a taxi, C pounds, is given by $C = 8 + 4n$, where n is the number of miles. What is the cost for 14 miles?

- [ ] A) £448.00
- [ ] B) £116.00
- [ ] C) £168.00
- [ ] D) £64.00
- [ ] E) £65.00

© Revision Library | revisionlibrary.co.uk

52 Work out the value of 2n + 2 when n = 4.

- [ ] A) 26
- [ ] B) 16
- [ ] C) 8
- [ ] D) 6
- [ ] E) 10

---

53 The cost of a taxi, C pounds, is given by C = 12 + 3n, where n is the number of miles. What is the cost for 6 miles?

- [ ] A) £30
- [ ] B) £75
- [ ] C) £18
- [ ] D) £31
- [ ] E) £90

---

54 Work out the value of 8(n + 2) when n = 5.

- [ ] A) 57
- [ ] B) 15
- [ ] C) 56
- [ ] D) 42
- [ ] E) 80

---

55 The cost of a party entertainer, C pounds, is given by C = 30 + 2n, where n is the number of children. What is the cost for 11 children?

- [ ] A) £51.00
- [ ] B) £332.00
- [ ] C) £52.00
- [ ] D) £352.00
- [ ] E) £53.00

© Revision Library | revisionlibrary.co.uk

56 Work out the value of 45 - 5n when n = 7.

- [ ] A) 11
- [ ] B) 280
- [ ] C) 80
- [ ] D) 10
- [ ] E) 47

---

57 The cost of a taxi, C pounds, is given by C = 30 + 2n, where n is the number of miles. What is the cost for 14 miles?

- [ ] A) £448.00
- [ ] B) £58.00
- [ ] C) £46.00
- [ ] D) £28.00
- [ ] E) £422.00

---

58 The cost of a party entertainer, C pounds, is given by C = 10 + 12n, where n is the number of children. What is the cost for 12 children?

- [ ] A) £264.00
- [ ] B) £34.00
- [ ] C) £1,440.00
- [ ] D) £132.00
- [ ] E) £154.00

---

59 Work out the value of 2x + 8y when x = 9 and y = 6.

- [ ] A) 150
- [ ] B) 65
- [ ] C) 84
- [ ] D) 25
- [ ] E) 66

© Revision Library | revisionlibrary.co.uk

60 The cost of a hall hire, C pounds, is given by C = 10 + 9n, where n is the number of hours. What is the cost for 15 hours?

- [ ] A) £285.00
- [ ] B) £135.00
- [ ] C) £144.00
- [ ] D) £145.00
- [ ] E) £159.00

---

61 The cost of a party entertainer, C pounds, is given by C = 5 + 4n, where n is the number of children. What is the cost for 10 children?

- [ ] A) £44.00
- [ ] B) £46.00
- [ ] C) £45.00
- [ ] D) £54.00
- [ ] E) £90.00

---

62 Work out the value of $4n^2 + 9$ when n = 5.

- [ ] A) 109
- [ ] B) 108
- [ ] C) 49
- [ ] D) 110
- [ ] E) 409

---

63 The cost of a taxi, C pounds, is given by C = 25 + 4n, where n is the number of miles. What is the cost for 5 miles?

- [ ] A) £20.00
- [ ] B) £145.00
- [ ] C) £500.00
- [ ] D) £129.00
- [ ] E) £45.00

© Revision Library | revisionlibrary.co.uk

64 Work out the value of 9n + 5 when n = 2.

- [ ] A) 16
- [ ] B) 97
- [ ] C) 63
- [ ] D) 28
- [ ] E) 23

---

65 Work out the value of 87 - 9n when n = 7.

- [ ] A) 546
- [ ] B) 150
- [ ] C) 85
- [ ] D) 24
- [ ] E) 10

---

66 Work out the value of 9(n + 5) when n = 9.

- [ ] A) 90
- [ ] B) 126
- [ ] C) 86
- [ ] D) 23
- [ ] E) 405

---

67 Work out the value of 6n + 4 when n = 3.

- [ ] A) 22
- [ ] B) 42
- [ ] C) 13
- [ ] D) 67
- [ ] E) 30

---

68 Work out the value of 4(n + 3) when n = 2.

- [ ] A) 9
- [ ] B) 21
- [ ] C) 20
- [ ] D) 19
- [ ] E) 11

© Revision Library | revisionlibrary.co.uk

69 Work out the value of 6(n + 6) when n = 5.

- [ ] A) 65
- [ ] B) 17
- [ ] C) 36
- [ ] D) 66
- [ ] E) 180

---

70 Work out the value of 5n + 2 when n = 2.

- [ ] A) 12
- [ ] B) 54
- [ ] C) 20
- [ ] D) 11
- [ ] E) 14

---

71 Work out the value of 9n + 5 when n = 2.

- [ ] A) 63
- [ ] B) 23
- [ ] C) 13
- [ ] D) 28
- [ ] E) 97

---

72 Work out the value of 7n + 6 when n = 8.

- [ ] A) 84
- [ ] B) 21
- [ ] C) 104
- [ ] D) 98
- [ ] E) 62

© Revision Library | revisionlibrary.co.uk

73 The cost of a party entertainer, C pounds, is given by C = 12 + 7n, where n is the number of children. What is the cost for 11 children?

- [ ] A) £209.00
- [ ] B) £89.00
- [ ] C) £30.00
- [ ] D) £139.00
- [ ] E) £77.00

---

74 Work out the value of 7(n + 7) when n = 2.

- [ ] A) 79
- [ ] B) 98
- [ ] C) 16
- [ ] D) 63
- [ ] E) 21

---

75 Work out the value of 5(n + 6) when n = 7.

- [ ] A) 41
- [ ] B) 64
- [ ] C) 210
- [ ] D) 65
- [ ] E) 18

---

76 The cost of a party entertainer, C pounds, is given by C = 30 + 8n, where n is the number of children. What is the cost for 12 children?

- [ ] A) £50.00
- [ ] B) £126.00
- [ ] C) £96.00
- [ ] D) £456.00
- [ ] E) £368.00

© Revision Library | revisionlibrary.co.uk

77 Work out the value of 8n + 8 when n = 3.

- [ ] A) 32
- [ ] B) 91
- [ ] C) 48
- [ ] D) 33
- [ ] E) 88

---

78 The cost of a taxi, C pounds, is given by C = 20 + 9n, where n is the number of miles. What is the cost for 8 miles?

- [ ] A) £37.00
- [ ] B) £1,440.00
- [ ] C) £92.00
- [ ] D) £169.00
- [ ] E) £232.00

---

79 Work out the value of 45 - 5n when n = 6.

- [ ] A) 14
- [ ] B) 240
- [ ] C) 46
- [ ] D) 11
- [ ] E) 15

---

80 The cost of a party entertainer, C pounds, is given by C = 20 + 2n, where n is the number of children. What is the cost for 12 children?

- [ ] A) £264.00
- [ ] B) £43.00
- [ ] C) £242.00
- [ ] D) £44.00
- [ ] E) £480.00

© Revision Library | revisionlibrary.co.uk

81 The cost of a party entertainer, C pounds, is given by C = 15 + 7n, where n is the number of children. What is the cost for 7 children?

- [ ] A) £154.00
- [ ] B) £112.00
- [ ] C) £64.00
- [ ] D) £63.00
- [ ] E) £49.00

---

82 Work out the value of 6n + 6 when n = 5.

- [ ] A) 24
- [ ] B) 35
- [ ] C) 71
- [ ] D) 60
- [ ] E) 36

---

83 The cost of a hall hire, C pounds, is given by C = 10 + 2n, where n is the number of hours. What is the cost for 6 hours?

- [ ] A) £72.00
- [ ] B) £62.00
- [ ] C) £12.00
- [ ] D) £22.00
- [ ] E) £18.00

---

84 The cost of a taxi, C pounds, is given by C = 25 + 2n, where n is the number of miles. What is the cost for 8 miles?

- [ ] A) £202.00
- [ ] B) £40.00
- [ ] C) £41.00
- [ ] D) £35.00
- [ ] E) £216.00

© Revision Library | revisionlibrary.co.uk

85 Work out the value of 37 - 5n when n = 6.

- [ ] A) 38
- [ ] B) 19
- [ ] C) 26
- [ ] D) 192
- [ ] E) 7

---

86 The cost of a party entertainer, C pounds, is given by C = 20 + 6n, where n is the number of children. What is the cost for 14 children?

- [ ] A) £84.00
- [ ] B) £104.00
- [ ] C) £286.00
- [ ] D) £364.00
- [ ] E) £105.00

---

87 The cost of a hall hire, C pounds, is given by C = 10 + 12n, where n is the number of hours. What is the cost for 8 hours?

- [ ] A) £96.00
- [ ] B) £105.00
- [ ] C) £92.00
- [ ] D) £106.00
- [ ] E) £176.00

---

88 Work out the value of 3(n + 4) when n = 4.

- [ ] A) 38
- [ ] B) 24
- [ ] C) 48
- [ ] D) 11
- [ ] E) 16

© Revision Library | revisionlibrary.co.uk

89 The cost of a party entertainer, C pounds, is given by C = 8 + 5n, where n is the number of children. What is the cost for 7 children?

- [ ] A) £42.00
- [ ] B) £91.00
- [ ] C) £43.00
- [ ] D) £61.00
- [ ] E) £280.00

---

90 Work out the value of 6(n + 3) when n = 3.

- [ ] A) 21
- [ ] B) 12
- [ ] C) 37
- [ ] D) 36
- [ ] E) 54

---

91 The cost of a taxi, C pounds, is given by C = 20 + 7n, where n is the number of miles. What is the cost for 13 miles?

- [ ] A) £91.00
- [ ] B) £267.00
- [ ] C) £1,820.00
- [ ] D) £351.00
- [ ] E) £111.00

---

92 Work out the value of 7x + 6y when x = 9 and y = 7.

- [ ] A) 105
- [ ] B) 104
- [ ] C) 103
- [ ] D) 2,646
- [ ] E) 208

© Revision Library | revisionlibrary.co.uk

93 The cost of a hall hire, C pounds, is given by C = 30 + 8n, where n is the number of hours. What is the cost for 11 hours?

- [ ] A) £418.00
- [ ] B) £88.00
- [ ] C) £2,640.00
- [ ] D) £118.00
- [ ] E) £338.00

---

94 The cost of a party entertainer, C pounds, is given by C = 10 + 4n, where n is the number of children. What is the cost for 9 children?

- [ ] A) £45.00
- [ ] B) £46.00
- [ ] C) £47.00
- [ ] D) £126.00
- [ ] E) £94.00

---

95 Work out the value of 3x + 7y when x = 7 and y = 5.

- [ ] A) 56
- [ ] B) 64
- [ ] C) 112
- [ ] D) 120
- [ ] E) 735

---

96 The cost of a party entertainer, C pounds, is given by C = 30 + 7n, where n is the number of children. What is the cost for 9 children?

- [ ] A) £333.00
- [ ] B) £1,890.00
- [ ] C) £94.00
- [ ] D) £277.00
- [ ] E) £93.00

© Revision Library | revisionlibrary.co.uk

97 The cost of a party entertainer, C pounds, is given by C = 15 + 7n, where n is the number of children. What is the cost for 13 children?

- [ ] A) £202.00
- [ ] B) £286.00
- [ ] C) £106.00
- [ ] D) £107.00
- [ ] E) £1,365.00

---

98 Work out the value of 17 - 6n when n = 2.

- [ ] A) 5
- [ ] B) 13
- [ ] C) 6
- [ ] D) 22
- [ ] E) 45

---

99 The cost of a party entertainer, C pounds, is given by C = 15 + 6n, where n is the number of children. What is the cost for 8 children?

- [ ] A) £168.00
- [ ] B) £63.00
- [ ] C) £126.00
- [ ] D) £64.00
- [ ] E) £29.00

---

100 The cost of a taxi, C pounds, is given by C = 5 + 2n, where n is the number of miles. What is the cost for 10 miles?

- [ ] A) £26.00
- [ ] B) £70.00
- [ ] C) £25.00
- [ ] D) £52.00
- [ ] E) £20.00

© Revision Library | revisionlibrary.co.uk

101 Work out the value of 9(n + 5) when n = 7.

- [ ] A) 72
- [ ] B) 21
- [ ] C) 68
- [ ] D) 108
- [ ] E) 107

---

102 The cost of a hall hire, C pounds, is given by C = 10 + 9n, where n is the number of hours. What is the cost for 13 hours?

- [ ] A) £127.00
- [ ] B) £117.00
- [ ] C) £139.00
- [ ] D) £247.00
- [ ] E) £32.00

---

103 Work out the value of 33 - 8n when n = 3.

- [ ] A) 75
- [ ] B) 9
- [ ] C) 10
- [ ] D) 28
- [ ] E) 57

---

104 The cost of a party entertainer, C pounds, is given by C = 10 + 4n, where n is the number of children. What is the cost for 10 children?

- [ ] A) £104
- [ ] B) £400
- [ ] C) £140
- [ ] D) £49
- [ ] E) £50

© Revision Library | revisionlibrary.co.uk

105 Work out the value of 26 - 3n when n = 2.

- [ ] A) 25
- [ ] B) 46
- [ ] C) 20
- [ ] D) 21
- [ ] E) 6

---

106 The cost of a party entertainer, C pounds, is given by C = 12 + 6n, where n is the number of children. What is the cost for 7 children?

- [ ] A) £54.00
- [ ] B) £126.00
- [ ] C) £55.00
- [ ] D) £90.00
- [ ] E) £504.00

---

107 The cost of a party entertainer, C pounds, is given by C = 20 + 3n, where n is the number of children. What is the cost for 13 children?

- [ ] A) £39.00
- [ ] B) £299.00
- [ ] C) £263.00
- [ ] D) £60.00
- [ ] E) £59.00

---

108 If T = (x + 2) x 3 and x = 2, what value of T is obtained?

- [ ] A) 12
- [ ] B) 9
- [ ] C) 10
- [ ] D) 6
- [ ] E) 8

© Revision Library | revisionlibrary.co.uk

109 Work out the value of 9n + 3 when n = 5.

- [ ] A) 98
- [ ] B) 60
- [ ] C) 42
- [ ] D) 48
- [ ] E) 47

---

110 Work out the value of 8x + 2y when x = 8 and y = 7.

- [ ] A) 78
- [ ] B) 72
- [ ] C) 150
- [ ] D) 77
- [ ] E) 25

---

111 The cost of a hall hire, C pounds, is given by C = 30 + 9n, where n is the number of hours. What is the cost for 2 hours?

- [ ] A) £69.00
- [ ] B) £78.00
- [ ] C) £48.00
- [ ] D) £49.00
- [ ] E) £18.00

---

112 Work out the value of 5(n + 9) when n = 6.

- [ ] A) 39
- [ ] B) 20
- [ ] C) 35
- [ ] D) 270
- [ ] E) 75

© Revision Library | revisionlibrary.co.uk

113 Work out the value of $2x + 6y$ when $x = 4$ and $y = 8$.

- [ ] A) 92
- [ ] B) 56
- [ ] C) 40
- [ ] D) 96
- [ ] E) 57

---

114 The cost of a taxi, C pounds, is given by $C = 20 + 4n$, where n is the number of miles. What is the cost for 12 miles?

- [ ] A) £960.00
- [ ] B) £288.00
- [ ] C) £67.00
- [ ] D) £68.00
- [ ] E) £244.00

---

115 Work out the value of $9n + 2$ when $n = 7$.

- [ ] A) 77
- [ ] B) 61
- [ ] C) 64
- [ ] D) 99
- [ ] E) 65

---

116 The cooling time in minutes, C, is given by $C = 10 + 2t$ where t is the temperature in degrees above 0. Find C when $t = 6$.

- [ ] A) 20
- [ ] B) 18
- [ ] C) 12
- [ ] D) 16
- [ ] E) 22

© Revision Library | revisionlibrary.co.uk

117 Work out the value of 5x + 4y when x = 6 and y = 6.

- [ ] A) 54
- [ ] B) 55
- [ ] C) 102
- [ ] D) 108
- [ ] E) 720

---

118 The cost of a hall hire, C pounds, is given by C = 8 + 7n, where n is the number of hours. What is the cost for 3 hours?

- [ ] A) £28.00
- [ ] B) £29.00
- [ ] C) £31.00
- [ ] D) £45.00
- [ ] E) £168.00

---

119 The cost of a hall hire, C pounds, is given by C = 10 + 3n, where n is the number of hours. What is the cost for 6 hours?

- [ ] A) £78.00
- [ ] B) £19.00
- [ ] C) £18.00
- [ ] D) £28.00
- [ ] E) £63.00

---

120 Work out the value of 9x + 5y when x = 4 and y = 5.

- [ ] A) 61
- [ ] B) 149
- [ ] C) 126
- [ ] D) 900
- [ ] E) 65

© Revision Library | revisionlibrary.co.uk

121 The cost of a taxi, C pounds, is given by C = 20 + 3n, where n is the number of miles. What is the cost for 8 miles?

- [ ] A) £31.00
- [ ] B) £163.00
- [ ] C) £44.00
- [ ] D) £184.00
- [ ] E) £480.00

---

122 The cost of a taxi, C pounds, is given by C = 30 + 9n, where n is the number of miles. What is the cost for 12 miles?

- [ ] A) £369.00
- [ ] B) £138.00
- [ ] C) £137.00
- [ ] D) £468.00
- [ ] E) £3,240.00

---

123 Work out the value of 9x + 8y when x = 5 and y = 8.

- [ ] A) 109
- [ ] B) 108
- [ ] C) 221
- [ ] D) 112
- [ ] E) 183

---

124 The cost of a party entertainer, C pounds, is given by C = 20 + 7n, where n is the number of children. What is the cost for 3 children?

- [ ] A) £81.00
- [ ] B) £42.00
- [ ] C) £67.00
- [ ] D) £21.00
- [ ] E) £41.00

© Revision Library | revisionlibrary.co.uk

125 Work out the value of $2(n + 9)$ when $n = 3$.

- [ ] A) 15
- [ ] B) 54
- [ ] C) 24
- [ ] D) 23
- [ ] E) 14

---

126 The cost of a hall hire, C pounds, is given by $C = 20 + 6n$, where n is the number of hours. What is the cost for 8 hours?

- [ ] A) £208.00
- [ ] B) £68.00
- [ ] C) £166.00
- [ ] D) £34.00
- [ ] E) £69.00

---

127 Work out the value of $9n^2 + 4$ when $n = 3$.

- [ ] A) 733
- [ ] B) 58
- [ ] C) 77
- [ ] D) 85
- [ ] E) 31

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.108 Substitution and Formulae in Words: 2-hour Pack

Question 1

correct option B (£40) cao **B1**

Answer: B) £40

Question 2

correct option E (£12.00) cao **B1**

Answer: E) £12.00

Question 3

correct option C (£83.00) cao **B1**

Answer: C) £83.00

Question 4

correct option D (84) cao **B1**

Answer: D) 84

Question 5

correct option E (£35.00) cao **B1**

Answer: E) £35.00

Question 6

correct option A (£70) cao **B1**

Answer: A) £70

Question 7

correct option D (78) cao **B1**

Answer: D) 78

Question 8

correct option C (£28.00) cao **B1**

Answer: C) £28.00

Question 9

correct option E (£55.00) cao **B1**

Answer: E) £55.00

Question 10

correct option B (39) cao **B1**

Answer: B) 39

Question 11

correct option C (14) cao **B1**

Answer: C) 14

Question 12

correct option A (£51.00) cao **B1**

Answer: A) £51.00

Question 13

correct option D (75) cao **B1**

Answer: D) 75

Question 14

correct option A (£53.00) cao **B1**

Answer: A) £53.00

Question 15

correct option C (24) cao **B1**

Answer: C) 24

Question 16

correct option E (61) cao **B1**

Answer: E) 61

Question 17

correct option D (£50) cao **B1**

Answer: D) £50

Question 18

correct option B (85) cao **B1**

Answer: B) 85

Question 19

correct option C (£181.00) cao **B1**

Answer: C) £181.00

Question 20

correct option E (2) cao **B1**

Answer: E) 2

Question 21

correct option D (£52.00) cao **B1**

Answer: D) £52.00

Question 22

correct option A (£60) cao **B1**

Answer: A) £60

Question 23

correct option B (32) cao **B1**

Answer: B) 32

Question 24

correct option E (£118.00) cao **B1**

Answer: E) £118.00

Question 25

correct option D (19) cao **B1**

Answer: D) 19

Question 26

correct option C (£9.00) cao **B1**

Answer: C) £9.00

Question 27

correct option C (48) cao **B1**

Answer: C) 48

Question 28

correct option E (£65.00) cao **B1**

Answer: E) £65.00

© Revision Library | revisionlibrary.co.uk

Question 29

correct option B (58) cao **B1**

Answer: B) 58

Question 30

correct option A (£50) cao **B1**

Answer: A) £50

Question 31

correct option D (48) cao **B1**

Answer: D) 48

Question 32

correct option B (19) cao **B1**

Answer: B) 19

Question 33

correct option E (£142.00) cao **B1**

Answer: E) £142.00

Question 34

correct option C (91) cao **B1**

Answer: C) 91

Question 35

correct option E (3) cao **B1**

Answer: E) 3

Question 36

correct option D (£132.00) cao **B1**

Answer: D) £132.00

Question 37

correct option A (£144.00) cao **B1**

Answer: A) £144.00

Question 38

correct option C (401) cao **B1**

Answer: C) 401

Question 39

correct option A (£57.00) cao **B1**

Answer: A) £57.00

Question 40

correct option B (72) cao **B1**

Answer: B) 72

Question 41

correct option C (£63.00) cao **B1**

Answer: C) £63.00

Question 42

correct option D (£45.00) cao **B1**

Answer: D) £45.00

Question 43

correct option E (17) cao **B1**

Answer: E) 17

Question 44

correct option D (£174.00) cao **B1**

Answer: D) £174.00

Question 45

correct option B (£40) cao **B1**

Answer: B) £40

Question 46

correct option A (30) cao **B1**

Answer: A) 30

Question 47

correct option C (154) cao **B1**

Answer: C) 154

Question 48

correct option E (40) cao **B1**

Answer: E) 40

Question 49

correct option A (£71.00) cao **B1**

Answer: A) £71.00

Question 50

correct option B (70) cao **B1**

Answer: B) 70

Question 51

correct option D (£64.00) cao **B1**

Answer: D) £64.00

Question 52

correct option E (10) cao **B1**

Answer: E) 10

Question 53

correct option A (£30) cao **B1**

Answer: A) £30

Question 54

correct option C (56) cao **B1**

Answer: C) 56

Question 55

correct option C (£52.00) cao **B1**

Answer: C) £52.00

Question 56

correct option D (10) cao **B1**

Answer: D) 10

Question 57

correct option B (£58.00) cao **B1**

Answer: B) £58.00

Question 58

correct option E (£154.00) cao **B1**

Answer: E) £154.00

© Revision Library | revisionlibrary.co.uk

Question 59

correct option E (66) cao **B1**

Answer: E) 66

Question 60

correct option D (£145.00) cao **B1**

Answer: D) £145.00

Question 61

correct option C (£45.00) cao **B1**

Answer: C) £45.00

Question 62

correct option A (109) cao **B1**

Answer: A) 109

Question 63

correct option E (£45.00) cao **B1**

Answer: E) £45.00

Question 64

correct option E (23) cao **B1**

Answer: E) 23

Question 65

correct option D (24) cao **B1**

Answer: D) 24

Question 66

correct option B (126) cao **B1**

Answer: B) 126

Question 67

correct option A (22) cao **B1**

Answer: A) 22

Question 68

correct option C (20) cao **B1**

Answer: C) 20

Question 69

correct option D (66) cao **B1**

Answer: D) 66

Question 70

correct option A (12) cao **B1**

Answer: A) 12

Question 71

correct option B (23) cao **B1**

Answer: B) 23

Question 72

correct option E (62) cao **B1**

Answer: E) 62

Question 73

correct option B (£89.00) cao **B1**

Answer: B) £89.00

Question 74

correct option D (63) cao **B1**

Answer: D) 63

Question 75

correct option D (65) cao **B1**

Answer: D) 65

Question 76

correct option B (£126.00) cao **B1**

Answer: B) £126.00

Question 77

correct option A (32) cao **B1**

Answer: A) 32

Question 78

correct option C (£92.00) cao **B1**

Answer: C) £92.00

Question 79

correct option E (15) cao **B1**

Answer: E) 15

Question 80

correct option D (£44.00) cao **B1**

Answer: D) £44.00

Question 81

correct option C (£64.00) cao **B1**

Answer: C) £64.00

Question 82

correct option E (36) cao **B1**

Answer: E) 36

Question 83

correct option D (£22.00) cao **B1**

Answer: D) £22.00

Question 84

correct option C (£41.00) cao **B1**

Answer: C) £41.00

Question 85

correct option E (7) cao **B1**

Answer: E) 7

Question 86

correct option B (£104.00) cao **B1**

Answer: B) £104.00

Question 87

correct option D (£106.00) cao **B1**

Answer: D) £106.00

Question 88

correct option B (24) cao **B1**

Answer: B) 24

© Revision Library | revisionlibrary.co.uk

Question 89

correct option C (£43.00) cao **B1**

Answer: C) £43.00

Question 90

correct option D (36) cao **B1**

Answer: D) 36

Question 91

correct option E (£111.00) cao **B1**

Answer: E) £111.00

Question 92

correct option A (105) cao **B1**

Answer: A) 105

Question 93

correct option D (£118.00) cao **B1**

Answer: D) £118.00

Question 94

correct option B (£46.00) cao **B1**

Answer: B) £46.00

Question 95

correct option A (56) cao **B1**

Answer: A) 56

Question 96

correct option E (£93.00) cao **B1**

Answer: E) £93.00

Question 97

correct option C (£106.00) cao **B1**

Answer: C) £106.00

Question 98

correct option A (5) cao **B1**

Answer: A) 5

Question 99

correct option B (£63.00) cao **B1**

Answer: B) £63.00

Question 100

correct option C (£25.00) cao **B1**

Answer: C) £25.00

Question 101

correct option D (108) cao **B1**

Answer: D) 108

Question 102

correct option A (£127.00) cao **B1**

Answer: A) £127.00

Question 103

correct option B (9) cao **B1**

Answer: B) 9

Question 104

correct option E (£50) cao **B1**

Answer: E) £50

Question 105

correct option C (20) cao **B1**

Answer: C) 20

Question 106

correct option A (£54.00) cao **B1**

Answer: A) £54.00

Question 107

correct option E (£59.00) cao **B1**

Answer: E) £59.00

Question 108

correct option A (12) cao **B1**

Answer: A) 12 because (2 + 2) x 3 = 4 x 3 = 12.

Question 109

correct option D (48) cao **B1**

Answer: D) 48

Question 110

correct option A (78) cao **B1**

Answer: A) 78

Question 111

correct option C (£48.00) cao **B1**

Answer: C) £48.00

Question 112

correct option E (75) cao **B1**

Answer: E) 75

Question 113

correct option B (56) cao **B1**

Answer: B) 56

Question 114

correct option D (£68.00) cao **B1**

Answer: D) £68.00

Question 115

correct option E (65) cao **B1**

Answer: E) 65

Question 116

correct option E (22) cao **B1**

Answer: E) 22

Question 117

correct option A (54) cao **B1**

Answer: A) 54

Question 118

correct option B (£29.00) cao **B1**

Answer: B) £29.00

© Revision Library | revisionlibrary.co.uk

Question 119

correct option D (£28.00) cao **B1**

Answer: D) £28.00

Question 120

correct option A (61) cao **B1**

Answer: A) 61

Question 121

correct option C (£44.00) cao **B1**

Answer: C) £44.00

Question 122

correct option B (£138.00) cao **B1**

Answer: B) £138.00

Question 123

correct option A (109) cao **B1**

Answer: A) 109

Question 124

correct option E (£41.00) cao **B1**

Answer: E) £41.00

Question 125

correct option C (24) cao **B1**

Answer: C) 24

Question 126

correct option B (£68.00) cao **B1**

Answer: B) £68.00

Question 127

correct option D (85) cao **B1**

Answer: D) 85

© Revision Library | revisionlibrary.co.uk