2.84 Negative Numbers in Context: 1-hour Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Zainab's account is overdrawn by £270, which is a balance of -£270. Zainab pays in £160 and then spends £145. What is the new balance?

- ☐ A) -£255
- ☐ B) -£256
- ☐ C) £285
- ☐ D) -£254
- ☐ E) -£575

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2 What is -8 + 6?

- ☐ A) -3
- ☐ B) -2
- ☐ C) -1
- ☐ D) 14
- ☐ E) -14

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3 The temperature in Belfast was 2°C at noon and -13°C at midnight. By how many degrees did it fall?

- ☐ A) 16°C
- ☐ B) 14°C
- ☐ C) 11°C
- ☐ D) -11°C
- ☐ E) 15°C

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4 Jack's account is overdrawn by £115, which is a balance of -£115. Jack pays in £160 and then spends £195. What is the new balance?

- [ ] A) £150
- [ ] B) -£470
- [ ] C) £240
- [ ] D) -£150
- [ ] E) £80

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5 The temperature in Leeds is -2°C. It rises by 15 degrees. What is the new temperature?

- [ ] A) -13°C
- [ ] B) 13°C
- [ ] C) 14°C
- [ ] D) 17°C
- [ ] E) -17°C

---

6 Kwame's account is overdrawn by £210, which is a balance of -£210. Kwame pays in £160 and then spends £150. What is the new balance?

- [ ] A) -£199
- [ ] B) -£520
- [ ] C) £100
- [ ] D) £220
- [ ] E) -£200

---

7 What is -1 - 13?

- [ ] A) -15
- [ ] B) -13
- [ ] C) -14
- [ ] D) 14
- [ ] E) 12

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8 The temperature in Norwich was 2°C at noon and -14°C at midnight. By how many degrees did it fall?

- [ ] A) 16°C
- [ ] B) -12°C
- [ ] C) 17°C
- [ ] D) 12°C
- [ ] E) 14°C

---

9 Declan's account is overdrawn by £270, which is a balance of -£270. Declan pays in £170 and then spends £125. What is the new balance?

- [ ] A) £25
- [ ] B) -£565
- [ ] C) £315
- [ ] D) -£225
- [ ] E) £225

---

10 What is 18 + (-3)?

- [ ] A) -21
- [ ] B) 14
- [ ] C) 15
- [ ] D) -15
- [ ] E) 21

---

11 Sienna's account is overdrawn by £190, which is a balance of -£190. Sienna pays in £170 and then spends £130. What is the new balance?

- [ ] A) £110
- [ ] B) -£490
- [ ] C) £150
- [ ] D) -£150
- [ ] E) £230

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12 What is -18 + 17?

- [ ] A) 35
- [ ] B) 1
- [ ] C) 0
- [ ] D) -35
- [ ] E) -1

---

13 The temperature in Norwich is -4°C. It rises by 6 degrees. What is the new temperature?

- [ ] A) -10°C
- [ ] B) 2°C
- [ ] C) 10°C
- [ ] D) 1°C
- [ ] E) 3°C

---

14 Ethan's account is overdrawn by £195, which is a balance of -£195. Ethan pays in £110 and then spends £105. What is the new balance?

- [ ] A) -£191
- [ ] B) -£190
- [ ] C) £200
- [ ] D) £190
- [ ] E) -£410

---

15 What is -6 + 13?

- [ ] A) 7
- [ ] B) -19
- [ ] C) 19
- [ ] D) -7
- [ ] E) 8

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16 The temperature in Inverness was 9°C at noon and -4°C at midnight. By how many degrees did it fall?

- [ ] A) 9°C
- [ ] B) 12°C
- [ ] C) 14°C
- [ ] D) 5°C
- [ ] E) 13°C

---

17 The highest recorded temperature one day was -2 degrees and the lowest was -9 degrees. What is the temperature range that day?

(1)

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18 What is 17 + (-15)?

- [ ] A) 1
- [ ] B) -2
- [ ] C) 2
- [ ] D) 32
- [ ] E) -32

---

19 The temperature in York is 6°C. It falls by 4 degrees. What is the new temperature?

- [ ] A) 3°C
- [ ] B) 2°C
- [ ] C) -2°C
- [ ] D) -10°C
- [ ] E) 10°C

---

20 Mei's account is overdrawn by £40, which is a balance of -£40. Mei pays in £135 and then spends £150. What is the new balance?

- [ ] A) -£325
- [ ] B) -£15
- [ ] C) £245
- [ ] D) -£55
- [ ] E) £25

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21 The temperature in Cardiff is -1°C. It falls by 12 degrees. What is the new temperature?

- [ ] A) 13°C
- [ ] B) -14°C
- [ ] C) -13°C
- [ ] D) -12°C
- [ ] E) 11°C

---

22 Noah's account is overdrawn by £115, which is a balance of -£115. Noah pays in £95 and then spends £80. What is the new balance?

- [ ] A) -£100
- [ ] B) -£101
- [ ] C) £130
- [ ] D) £15
- [ ] E) -£290

---

23 What is -5 + 9?

- [ ] A) -4
- [ ] B) -14
- [ ] C) 5
- [ ] D) 3
- [ ] E) 4

---

24 Ffion's account is overdrawn by £90, which is a balance of -£90. Ffion pays in £55 and then spends £175. What is the new balance?

- [ ] A) -£30
- [ ] B) -£210
- [ ] C) £210
- [ ] D) -£320
- [ ] E) -£209

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25 What is -4 + 1?

- [ ] A) -3
- [ ] B) 5
- [ ] C) -5
- [ ] D) 3
- [ ] E) -4

---

26 The temperature in Belfast was 11°C at noon and -5°C at midnight. By how many degrees did it fall?

- [ ] A) 15°C
- [ ] B) 17°C
- [ ] C) 16°C
- [ ] D) 6°C
- [ ] E) 11°C

---

27 Ewan's account is overdrawn by £250, which is a balance of -£250. Ewan pays in £110 and then spends £90. What is the new balance?

- [ ] A) -£230
- [ ] B) -£231
- [ ] C) £20
- [ ] D) £270
- [ ] E) -£450

---

28 What is -4 + 17?

- [ ] A) 12
- [ ] B) -13
- [ ] C) 13
- [ ] D) 14
- [ ] E) -21

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29 The temperature in Leeds is -7°C. It rises by 9 degrees. What is the new temperature?

- [ ] A) 16°C
- [ ] B) -2°C
- [ ] C) -16°C
- [ ] D) 2°C
- [ ] E) 3°C

---

30 What is -12 + 18?

- [ ] A) -30
- [ ] B) 6
- [ ] C) 30
- [ ] D) -6
- [ ] E) 7

---

31 At 6 am the temperature in Inverness was -5°C. By 2 pm it was 5°C. By how many degrees did it rise?

- [ ] A) 9°C
- [ ] B) -10°C
- [ ] C) 11°C
- [ ] D) 10°C
- [ ] E) 0°C

---

32 Callum's account is overdrawn by £265, which is a balance of -£265. Callum pays in £130 and then spends £130. What is the new balance?

- [ ] A) -£265
- [ ] B) -£266
- [ ] C) -£525
- [ ] D) £265
- [ ] E) £0

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33 The temperature in Cardiff is 1°C. It falls by 12 degrees. What is the new temperature?

- [ ] A) 13°C
- [ ] B) -13°C
- [ ] C) -11°C
- [ ] D) -10°C
- [ ] E) 11°C

---

34 Yusuf's account is overdrawn by £270, which is a balance of -£270. Yusuf pays in £45 and then spends £75. What is the new balance?

- [ ] A) £240
- [ ] B) -£300
- [ ] C) -£301
- [ ] D) -£390
- [ ] E) -£150

---

35 What is 5 - 4?

- [ ] A) 2
- [ ] B) 1
- [ ] C) -9
- [ ] D) 9
- [ ] E) -1

---

36 Anya's account is overdrawn by £110, which is a balance of -£110. Anya pays in £95 and then spends £165. What is the new balance?

- [ ] A) £40
- [ ] B) -£70
- [ ] C) -£370
- [ ] D) -£180
- [ ] E) £180

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37 What is -16 + 12?

- [ ] A) -3
- [ ] B) 4
- [ ] C) 28
- [ ] D) -28
- [ ] E) -4

---

38 The temperature in Cardiff is -4°C. It rises by 12 degrees. What is the new temperature?

- [ ] A) 16°C
- [ ] B) -16°C
- [ ] C) 8°C
- [ ] D) -8°C
- [ ] E) 9°C

---

39 Isla's account is overdrawn by £85, which is a balance of -£85. Isla pays in £180 and then spends £155. What is the new balance?

- [ ] A) £25
- [ ] B) £110
- [ ] C) -£60
- [ ] D) -£420
- [ ] E) -£59

---

40 What is -2 - (-18)?

- [ ] A) -16
- [ ] B) 16
- [ ] C) 17
- [ ] D) -20
- [ ] E) 15

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41 The temperature in Norwich is 1°C. It falls by 6 degrees. What is the new temperature?

- [ ] A) 5°C
- [ ] B) 7°C
- [ ] C) -7°C
- [ ] D) -6°C
- [ ] E) -5°C

---

42 A car thermometer shows 15 degrees. It falls by 18 degrees, then rises by 9 degrees. Work out the final temperature.

- [ ] A) 12°C
- [ ] B) -12°C
- [ ] C) 42°C
- [ ] D) -6°C
- [ ] E) 6°C

---

43 What is 16 + 15?

- [ ] A) 1
- [ ] B) -31
- [ ] C) 32
- [ ] D) 31
- [ ] E) 30

---

44 At 6 am the temperature in York was -5°C. By 2 pm it was 6°C. By how many degrees did it rise?

- [ ] A) 12°C
- [ ] B) 10°C
- [ ] C) 1°C
- [ ] D) 11°C
- [ ] E) -11°C

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45 Sana's account is overdrawn by £180, which is a balance of -£180. Sana pays in £145 and then spends £70. What is the new balance?

- [ ] A) £255
- [ ] B) -£395
- [ ] C) £75
- [ ] D) £35
- [ ] E) -£105

---

46 The temperature in Swansea is -9°C. It rises by 3 degrees. What is the new temperature?

- [ ] A) -6°C
- [ ] B) -12°C
- [ ] C) -7°C
- [ ] D) 12°C
- [ ] E) -5°C

---

47 Ffion's account is overdrawn by £90, which is a balance of -£90. Ffion pays in £110 and then spends £135. What is the new balance?

- [ ] A) -£25
- [ ] B) £65
- [ ] C) -£115
- [ ] D) £115
- [ ] E) -£335

---

48 What is 9 - 1?

- [ ] A) 8
- [ ] B) 10
- [ ] C) 7
- [ ] D) 9
- [ ] E) -10

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49 Niamh's account is overdrawn by £90, which is a balance of -£90. Niamh pays in £65 and then spends £55. What is the new balance?

- [ ] A) -£79
- [ ] B) -£80
- [ ] C) -£210
- [ ] D) £80
- [ ] E) £100

---

50 Isla's account is overdrawn by £40, which is a balance of -£40. Isla pays in £185 and then spends £80. What is the new balance?

- [ ] A) £65
- [ ] B) £145
- [ ] C) £225
- [ ] D) £105
- [ ] E) -£305

---

51 What is 7 + 4?

- [ ] A) -3
- [ ] B) 12
- [ ] C) 3
- [ ] D) -11
- [ ] E) 11

---

52 The temperature in Cardiff is 4°C. It falls by 10 degrees. What is the new temperature?

- [ ] A) 14°C
- [ ] B) -14°C
- [ ] C) -6°C
- [ ] D) 6°C
- [ ] E) -7°C

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53 Lily's account is overdrawn by £50, which is a balance of -£50. Lily pays in £35 and then spends £165. What is the new balance?

- [ ] A) -£179
- [ ] B) -£180
- [ ] C) -£250
- [ ] D) -£80
- [ ] E) £150

---

54 What is 4 - 5?

- [ ] A) -2
- [ ] B) 9
- [ ] C) 1
- [ ] D) 0
- [ ] E) -1

---

55 Esme's account is overdrawn by £55, which is a balance of -£55. Esme pays in £25 and then spends £65. What is the new balance?

- [ ] A) -£95
- [ ] B) -£145
- [ ] C) £15
- [ ] D) -£94
- [ ] E) £95

---

56 What is 9 + 12?

- [ ] A) -3
- [ ] B) 3
- [ ] C) 21
- [ ] D) -21
- [ ] E) 20

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57 At 6 am the temperature in Norwich was -9°C. By 2 pm it was 5°C. By how many degrees did it rise?

- [ ] A) -4°C
- [ ] B) -14°C
- [ ] C) 14°C
- [ ] D) 13°C
- [ ] E) 4°C

---

58 What is -8 + 4?

- [ ] A) -5
- [ ] B) -4
- [ ] C) 12
- [ ] D) -12
- [ ] E) -3

---

59 What is 10 - 18?

- [ ] A) 8
- [ ] B) 28
- [ ] C) -7
- [ ] D) -9
- [ ] E) -8

---

60 The temperature in Aberdeen was 15°C at noon and -11°C at midnight. By how many degrees did it fall?

- [ ] A) 4°C
- [ ] B) 27°C
- [ ] C) 15°C
- [ ] D) 25°C
- [ ] E) 26°C

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61 What is 16 + (-1)?

- ☐ A) 14
- ☐ B) -17
- ☐ C) 15
- ☐ D) 17
- ☐ E) 16

---

62 At 6 am the temperature in Norwich was -6°C. By 2 pm it was 6°C. By how many degrees did it rise?

- ☐ A) 13°C
- ☐ B) 12°C
- ☐ C) 0°C
- ☐ D) -12°C
- ☐ E) 11°C

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63 A car thermometer shows 5 degrees. It falls by 12 degrees, then rises by 6 degrees. Work out the final temperature.

(2)

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Mark scheme · 2.84 Negative Numbers in Context: 1-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

correct option A (-£255) cao **B1**

Answer: A) -£255

Question 2

correct option B (-2) cao **B1**

Answer: B) -2

Question 3

correct option E (15°C) cao **B1**

Answer: E) 15°C

Question 4

correct option D (-£150) cao **B1**

Answer: D) -£150

Question 5

correct option B (13°C) cao **B1**

Answer: B) 13°C

Question 6

correct option E (-£200) cao **B1**

Answer: E) -£200

Question 7

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

Answer: C) -14

Question 8

correct option A (16°C) cao **B1**

Answer: A) 16°C

Question 9

correct option D (-£225) cao **B1**

Answer: D) -£225

Question 10

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

Answer: C) 15

Question 11

correct option D (-£150) cao **B1**

Answer: D) -£150

Question 12

correct option E (-1) cao **B1**

Answer: E) -1

Question 13

correct option B (2°C) cao **B1**

Answer: B) 2°C

Question 14

correct option B (-£190) cao **B1**

Answer: B) -£190

Question 15

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

Answer: A) 7

Question 16

correct option E (13°C) cao **B1**

Answer: E) 13°C

Question 17

7 degrees cao **B1**

Answer: 7 degrees

Question 18

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

Answer: C) 2

Question 19

correct option B (2°C) cao **B1**

Answer: B) 2°C

Question 20

correct option D (-£55) cao **B1**

Answer: D) -£55

Question 21

correct option C (-13°C) cao **B1**

Answer: C) -13°C

Question 22

correct option A (-£100) cao **B1**

Answer: A) -£100

Question 23

correct option E (4) cao **B1**

Answer: E) 4

Question 24

correct option B (-£210) cao **B1**

Answer: B) -£210

Question 25

correct option A (-3) cao **B1**

Answer: A) -3

Question 26

correct option C (16°C) cao **B1**

Answer: C) 16°C

Question 27

correct option A (-£230) cao **B1**

Answer: A) -£230

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Question 28

correct option C (13) cao **B1**

Answer: C) 13

Question 29

correct option D (2°C) cao **B1**

Answer: D) 2°C

Question 30

correct option B (6) cao **B1**

Answer: B) 6

Question 31

correct option D (10°C) cao **B1**

Answer: D) 10°C

Question 32

correct option A (-£265) cao **B1**

Answer: A) -£265

Question 33

correct option C (-11°C) cao **B1**

Answer: C) -11°C

Question 34

correct option B (-£300) cao **B1**

Answer: B) -£300

Question 35

correct option B (1) cao **B1**

Answer: B) 1

Question 36

correct option D (-£180) cao **B1**

Answer: D) -£180

Question 37

correct option E (-4) cao **B1**

Answer: E) -4

Question 38

correct option C (8°C) cao **B1**

Answer: C) 8°C

Question 39

correct option C (-£60) cao **B1**

Answer: C) -£60

Question 40

correct option B (16) cao **B1**

Answer: B) 16

Question 41

correct option E (-5°C) cao **B1**

Answer: E) -5°C

Question 42

correct option E (6°C) cao **B1**

Answer: E) 6°C

Question 43

correct option D (31) cao **B1**

Answer: D) 31

Question 44

correct option D (11°C) cao **B1**

Answer: D) 11°C

Question 45

correct option E (-£105) cao **B1**

Answer: E) -£105

Question 46

correct option A (-6°C) cao **B1**

Answer: A) -6°C

Question 47

correct option C (-£115) cao **B1**

Answer: C) -£115

Question 48

correct option A (8) cao **B1**

Answer: A) 8

Question 49

correct option B (-£80) cao **B1**

Answer: B) -£80

Question 50

correct option A (£65) cao **B1**

Answer: A) £65

Question 51

correct option E (11) cao **B1**

Answer: E) 11

Question 52

correct option C (-6°C) cao **B1**

Answer: C) -6°C

Question 53

correct option B (-£180) cao **B1**

Answer: B) -£180

Question 54

correct option E (-1) cao **B1**

Answer: E) -1

Question 55

correct option A (-£95) cao **B1**

Answer: A) -£95

Question 56

correct option C (21) cao **B1**

Answer: C) 21

Question 57

correct option C (14°C) cao **B1**

Answer: C) 14°C

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Question 58

correct option B (-4) cao **B1**

Answer: B) -4

Question 59

correct option E (-8) cao **B1**

Answer: E) -8

Question 60

correct option E (26°C) cao **B1**

Answer: E) 26°C

Question 61

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

Answer: C) 15

Question 62

correct option B (12°C) cao **B1**

Answer: B) 12°C

Question 63

correct intermediate step seen (5 - 12 = -7 or equivalent) **M1**

-1°C cao **A1**

Answer: -1°C

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