2.84 Negative Numbers in Context: Test Pack

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

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which of these numbers is the smallest?

- ☐ A) -3
- ☐ B) 2
- ☐ C) -7
- ☐ D) 0
- ☐ E) 5

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2 Aisha's account is overdrawn by £300, which is a balance of -£300. Aisha pays in £140 and then spends £105. What is the new balance?

- ☐ A) -£264
- ☐ B) £265
- ☐ C) -£265
- ☐ D) £335
- ☐ E) -£545

---

3 What is 3 - 7?

- ☐ A) 10
- ☐ B) -5
- ☐ C) -4
- ☐ D) -3
- ☐ E) 4

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4 Anya's account is overdrawn by £60, which is a balance of -£60. Anya pays in £95 and then spends £110. What is the new balance?

- [ ] A) -£15
- [ ] B) -£75
- [ ] C) -£76
- [ ] D) -£265
- [ ] E) £45

---

5 What is 2 - 1?

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

---

6 The temperature in Norwich was 1°C at noon and -9°C at midnight. By how many degrees did it fall?

- [ ] A) 9°C
- [ ] B) -8°C
- [ ] C) 11°C
- [ ] D) 8°C
- [ ] E) 10°C

---

7 Which number is larger: -0.5 or -1.0?

- [ ] A) -1.0
- [ ] B) -0.5
- [ ] C) they are equal
- [ ] D) cannot be compared
- [ ] E) 0

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8 Kofi's account is overdrawn by £235, which is a balance of -£235. Kofi pays in £90 and then spends £60. What is the new balance?

- ☐ A) £30
- ☐ B) -£85
- ☐ C) -£205
- ☐ D) £265
- ☐ E) -£385

---

9 What is -9 + 4?

- ☐ A) 5
- ☐ B) -4
- ☐ C) -5
- ☐ D) -13
- ☐ E) 13

---

10 At 6 am the temperature in Leeds was -11°C. By 2 pm it was 14°C. By how many degrees did it rise?

- ☐ A) 24°C
- ☐ B) 3°C
- ☐ C) 26°C
- ☐ D) 25°C
- ☐ E) -25°C

---

11 What is -10 - 19?

- ☐ A) 9
- ☐ B) -30
- ☐ C) -29
- ☐ D) 29
- ☐ E) -28

---

12 Mia owes £4 and Noah has £7. What is their combined balance?

(1)

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13 The temperature in Exeter was 6°C at noon and -7°C at midnight. By how many degrees did it fall?

- ☐ A) 13°C
- ☐ B) 1°C
- ☐ C) 14°C
- ☐ D) -1°C
- ☐ E) 12°C

---

14 Zainab's account is overdrawn by £120, which is a balance of -£120. Zainab pays in £85 and then spends £115. What is the new balance?

- ☐ A) -£320
- ☐ B) £90
- ☐ C) £80
- ☐ D) -£150
- ☐ E) -£151

---

15 What is -17 + 3?

- ☐ A) -15
- ☐ B) 20
- ☐ C) -13
- ☐ D) -20
- ☐ E) -14

---

16 The temperature in Swansea is -3°C. It rises by 7 degrees. What is the new temperature?

- ☐ A) 3°C
- ☐ B) -10°C
- ☐ C) 10°C
- ☐ D) 4°C
- ☐ E) -4°C

---

17 Complete the sequence: -3, -1, 1, 3, ____.

(1)

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18 Ben's account is overdrawn by £255, which is a balance of -£255. Ben pays in £135 and then spends £155. What is the new balance?

- [ ] A) -£276
- [ ] B) £235
- [ ] C) £35
- [ ] D) -£545
- [ ] E) -£275

---

19 What is -6 - 7?

- [ ] A) -14
- [ ] B) 1
- [ ] C) -12
- [ ] D) 13
- [ ] E) -13

---

20 The temperature in Aberdeen was 4°C at noon and -8°C at midnight. By how many degrees did it fall?

- [ ] A) 12°C
- [ ] B) 13°C
- [ ] C) 4°C
- [ ] D) 11°C
- [ ] E) -4°C

---

21 Dylan's account is overdrawn by £115, which is a balance of -£115. Dylan pays in £35 and then spends £95. What is the new balance?

- [ ] A) -£175
- [ ] B) -£245
- [ ] C) £55
- [ ] D) -£176
- [ ] E) £175

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22 What is 8 + 2?

- [ ] A) 11
- [ ] B) 10
- [ ] C) 6
- [ ] D) -10
- [ ] E) -6

---

23 The temperature in Norwich is -1°C. It rises by 10 degrees. What is the new temperature?

- [ ] A) 10°C
- [ ] B) 8°C
- [ ] C) 11°C
- [ ] D) 9°C
- [ ] E) -11°C

---

24 Calculate -5 + 3.

(1)

---

25 The temperature in Belfast was 11°C at noon and -9°C at midnight. By how many degrees did it fall?

- [ ] A) 11°C
- [ ] B) 21°C
- [ ] C) 2°C
- [ ] D) 20°C
- [ ] E) 19°C

---

26 Anya's account is overdrawn by £280, which is a balance of -£280. Anya pays in £50 and then spends £35. What is the new balance?

- [ ] A) -£365
- [ ] B) £295
- [ ] C) -£266
- [ ] D) -£265
- [ ] E) -£264

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27 Priya's account is overdrawn by £120, which is a balance of -£120. Priya pays in £40 and then spends £60. What is the new balance?

- [ ] A) -£140
- [ ] B) -£220
- [ ] C) £140
- [ ] D) £100
- [ ] E) -£20

---

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

- [ ] A) 17°C
- [ ] B) 14°C
- [ ] C) 12°C
- [ ] D) 15°C
- [ ] E) 16°C

---

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

- [ ] A) -8°C
- [ ] B) -1°C
- [ ] C) 0°C
- [ ] D) 8°C
- [ ] E) 1°C

---

30 Ben's account is overdrawn by £150, which is a balance of -£150. Ben pays in £200 and then spends £55. What is the new balance?

- [ ] A) £5
- [ ] B) -£5
- [ ] C) -£4
- [ ] D) -£405
- [ ] E) £295

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31 What is -5 + 14?

- [ ] A) -9
- [ ] B) 9
- [ ] C) 8
- [ ] D) 19
- [ ] E) -19

---

32 The temperature in Belfast was 10°C at noon and -5°C at midnight. By how many degrees did it fall?

- [ ] A) 15°C
- [ ] B) 10°C
- [ ] C) 5°C
- [ ] D) 14°C
- [ ] E) 16°C

---

33 The temperature in Leeds is -9°C. It rises by 13 degrees. What is the new temperature?

- [ ] A) 22°C
- [ ] B) -22°C
- [ ] C) 4°C
- [ ] D) 3°C
- [ ] E) -4°C

---

34 What is -19 + 12?

- [ ] A) -7
- [ ] B) -31
- [ ] C) 31
- [ ] D) -6
- [ ] E) 7

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35 What is 8 + 1?

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

---

36 The temperature in Exeter is -6°C. It rises by 6 degrees. What is the new temperature?

- [ ] A) -1°C
- [ ] B) 0°C
- [ ] C) -12°C
- [ ] D) 1°C
- [ ] E) 12°C

---

37 Ewan's account is overdrawn by £210, which is a balance of -£210. Ewan pays in £45 and then spends £65. What is the new balance?

- [ ] A) -£100
- [ ] B) -£231
- [ ] C) -£230
- [ ] D) -£320
- [ ] E) £190

---

38 What is 1 - 7?

- [ ] A) -7
- [ ] B) -5
- [ ] C) 6
- [ ] D) -6
- [ ] E) 8

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39 A car thermometer shows 13 degrees. It falls by 11 degrees, then rises by 5 degrees. Work out the final temperature.

- [ ] A) -7°C
- [ ] B) 7°C
- [ ] C) 3°C
- [ ] D) -3°C
- [ ] E) 29°C

---

40 Lily's account is overdrawn by £50, which is a balance of -£50. Lily pays in £155 and then spends £20. What is the new balance?

- [ ] A) £86
- [ ] B) £185
- [ ] C) £85
- [ ] D) -£225
- [ ] E) £125

---

41 Anya's account is overdrawn by £50, which is a balance of -£50. Anya pays in £30 and then spends £15. What is the new balance?

- [ ] A) -£35
- [ ] B) £15
- [ ] C) -£5
- [ ] D) £65
- [ ] E) -£95

---

42 What is -10 - 8?

- [ ] A) 18
- [ ] B) -2
- [ ] C) -18
- [ ] D) -17
- [ ] E) 2

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43 The temperature in Belfast was 14°C at noon and -9°C at midnight. By how many degrees did it fall?

- [ ] A) 23°C
- [ ] B) 22°C
- [ ] C) 24°C
- [ ] D) 14°C
- [ ] E) 5°C

---

44 The temperature was -2 degrees Celsius in the early morning. By noon it fell by 5 degrees. Work out the temperature at noon.

(1)

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45 What is -12 - 2?

- [ ] A) -15
- [ ] B) -14
- [ ] C) -10
- [ ] D) 14
- [ ] E) -13

---

46 Hamza's account is overdrawn by £45, which is a balance of -£45. Hamza pays in £60 and then spends £135. What is the new balance?

- [ ] A) -£240
- [ ] B) £150
- [ ] C) -£30
- [ ] D) -£119
- [ ] E) -£120

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47 Hamza's account is overdrawn by £55, which is a balance of -£55. Hamza pays in £140 and then spends £55. What is the new balance?

- [ ] A) £30
- [ ] B) £140
- [ ] C) £85
- [ ] D) -£30
- [ ] E) -£250

---

48 Mei's account is overdrawn by £155, which is a balance of -£155. Mei pays in £185 and then spends £45. What is the new balance?

- [ ] A) -£15
- [ ] B) -£385
- [ ] C) £75
- [ ] D) -£16
- [ ] E) £295

---

49 The temperature in a town is -1 degrees. It rises by 8 degrees, then falls by 20 degrees. Work out the final temperature.

- [ ] A) 12°C
- [ ] B) 11°C
- [ ] C) 7°C
- [ ] D) -13°C
- [ ] E) -12°C

---

50 A car thermometer shows 11 degrees. It falls by 14 degrees, then rises by 7 degrees. Work out the final temperature.

- [ ] A) -10°C
- [ ] B) 10°C
- [ ] C) -4°C
- [ ] D) 32°C
- [ ] E) 4°C

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51 The temperature in a town is 1 degrees. It rises by 9 degrees, then falls by 20 degrees. Work out the final temperature.

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

---

52 A weather station records -2 degrees. During the day it warms by 8 degrees and then by a further 5 degrees. What is the temperature at the end of the day?

- [ ] A) 3°C
- [ ] B) 1°C
- [ ] C) 13°C
- [ ] D) 6°C
- [ ] E) 11°C

---

53 The temperature in a town is -6 degrees. It rises by 5 degrees, then falls by 15 degrees. Work out the final temperature.

- [ ] A) 10°C
- [ ] B) -10°C
- [ ] C) -16°C
- [ ] D) 4°C
- [ ] E) -1°C

---

54 A weather station records -2 degrees. During the day it warms by 11 degrees and then by a further 8 degrees. What is the temperature at the end of the day?

- [ ] A) 17°C
- [ ] B) 19°C
- [ ] C) 1°C
- [ ] D) 9°C
- [ ] E) 6°C

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55 A weather station records 3 degrees. During the day it warms by 10 degrees and then by a further 9 degrees. What is the temperature at the end of the day?

- [ ] A) 13°C
- [ ] B) 4°C
- [ ] C) 12°C
- [ ] D) 22°C
- [ ] E) 19°C

---

56 Ffion's account is overdrawn by £280, which is a balance of -£280. Ffion pays in £200 and then spends £35. What is the new balance?

- [ ] A) £165
- [ ] B) -£515
- [ ] C) -£45
- [ ] D) -£115
- [ ] E) £445

---

57 What is -7 + 15?

- [ ] A) 9
- [ ] B) 22
- [ ] C) -8
- [ ] D) -22
- [ ] E) 8

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58 Order these numbers from smallest to largest: -1.2, -0.03, 0, 0.5, -0.99

(2)

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59 Sam's bank balance is -£12.

(a) He pays in £20. What is his new balance? **(1)**

.....

(b) He then withdraws £5. What is the balance now? **(1)**

.....

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Mark scheme · 2.84 Negative Numbers in Context: Test Pack

Question 1

correct option C (-7) cao **B1**

Answer: C) -7 (smallest number on the list).

Question 2

correct option C (-£265) cao **B1**

Answer: C) -£265

Question 3

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

Answer: C) -4

Question 4

correct option B (-£75) cao **B1**

Answer: B) -£75

Question 5

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

Answer: D) 1

Question 6

correct option E (10°C) cao **B1**

Answer: E) 10°C

Question 7

correct option B (-0.5) cao **B1**

Answer: B) -0.5

Question 8

correct option C (-£205) cao **B1**

Answer: C) -£205

Question 9

correct option C (-5) cao **B1**

Answer: C) -5

Question 10

correct option D (25°C) cao **B1**

Answer: D) 25°C

Question 11

correct option C (-29) cao **B1**

Answer: C) -29

Question 12

£3 cao **B1**

Answer: £3

Question 13

correct option A (13°C) cao **B1**

Answer: A) 13°C

Question 14

correct option D (-£150) cao **B1**

Answer: D) -£150

Question 15

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

Answer: E) -14

Question 16

correct option D (4°C) cao **B1**

Answer: D) 4°C

Question 17

5 cao **B1**

Answer: 5

Question 18

correct option E (-£275) cao **B1**

Answer: E) -£275

Question 19

correct option E (-13) cao **B1**

Answer: E) -13

Question 20

correct option A (12°C) cao **B1**

Answer: A) 12°C

Question 21

correct option A (-£175) cao **B1**

Answer: A) -£175

Question 22

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

Answer: B) 10

Question 23

correct option D (9°C) cao **B1**

Answer: D) 9°C

Question 24

-2 cao **B1**

Answer: -2

Question 25

correct option D (20°C) cao **B1**

Answer: D) 20°C

Question 26

correct option D (-£265) cao **B1**

Answer: D) -£265

Question 27

correct option A (-£140) cao **B1**

Answer: A) -£140

Question 28

correct option E (16°C) cao **B1**

Answer: E) 16°C

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Question 29

correct option C (0°C) cao **B1**

Answer: C) 0°C

Question 30

correct option B (-£5) cao **B1**

Answer: B) -£5

Question 31

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

Answer: B) 9

Question 32

correct option A (15°C) cao **B1**

Answer: A) 15°C

Question 33

correct option C (4°C) cao **B1**

Answer: C) 4°C

Question 34

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

Answer: A) -7

Question 35

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

Answer: B) 9

Question 36

correct option B (0°C) cao **B1**

Answer: B) 0°C

Question 37

correct option C (-£230) cao **B1**

Answer: C) -£230

Question 38

correct option D (-6) cao **B1**

Answer: D) -6

Question 39

correct option B (7°C) cao **B1**

Answer: B) 7°C

Question 40

correct option C (£85) cao **B1**

Answer: C) £85

Question 41

correct option A (-£35) cao **B1**

Answer: A) -£35

Question 42

correct option C (-18) cao **B1**

Answer: C) -18

Question 43

correct option A (23°C) cao **B1**

Answer: A) 23°C

Question 44

-7°C cao **B1**

Answer: -7°C

Question 45

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

Answer: B) -14

Question 46

correct option E (-£120) cao **B1**

Answer: E) -£120

Question 47

correct option A (£30) cao **B1**

Answer: A) £30

Question 48

correct option A (-£15) cao **B1**

Answer: A) -£15

Question 49

correct option D (-13°C) cao **B1**

Answer: D) -13°C

Question 50

correct option E (4°C) cao **B1**

Answer: E) 4°C

Question 51

correct option A (-10°C) cao **B1**

Answer: A) -10°C

Question 52

correct option E (11°C) cao **B1**

Answer: E) 11°C

Question 53

correct option C (-16°C) cao **B1**

Answer: C) -16°C

Question 54

correct option A (17°C) cao **B1**

Answer: A) 17°C

Question 55

correct option D (22°C) cao **B1**

Answer: D) 22°C

Question 56

correct option D (-£115) cao **B1**

Answer: D) -£115

Question 57

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

Answer: E) 8

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Question 58

identify smallest and largest correctly oe (smallest = -1.2, largest = 0.5) **M1**

fully correct order: -1.2, -0.99, -0.03, 0, 0.5 cao **A1**

Answer: -1.2, -0.99, -0.03, 0, 0.5

Question 59

(a) £8 cao **B1**

(a) Answer: £8

(b) £3 cao **B1**

(b) Answer: £3

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