2.84 Negative Numbers in Context: 30-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Anya's account is overdrawn by £180, which is a balance of -£180. Anya pays in £140 and then spends £90. What is the new balance?

- [ ] A) £230
- [ ] B) -£130
- [ ] C) £130
- [ ] D) -£410
- [ ] E) £50

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2 At 6 am the temperature in Cardiff was -5°C. By 2 pm it was 10°C. By how many degrees did it rise?

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

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3 Sana's account is overdrawn by £280, which is a balance of -£280. Sana pays in £105 and then spends £65. What is the new balance?

- [ ] A) -£241
- [ ] B) £320
- [ ] C) -£239
- [ ] D) -£240
- [ ] E) -£450

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4 What is -3 + 9?

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

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5 The temperature in Aberdeen is -7°C. It rises by 4 degrees. What is the new temperature?

- [ ] A) -11°C
- [ ] B) 3°C
- [ ] C) -2°C
- [ ] D) 11°C
- [ ] E) -3°C

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6 Megan's account is overdrawn by £265, which is a balance of -£265. Megan pays in £115 and then spends £50. What is the new balance?

- [ ] A) -£200
- [ ] B) £65
- [ ] C) -£199
- [ ] D) -£430
- [ ] E) £330

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7 What is -19 - 15?

- [ ] A) -4
- [ ] B) 34
- [ ] C) -33
- [ ] D) -34
- [ ] E) -35

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8 The temperature in Cardiff is -3°C. It falls by 15 degrees. What is the new temperature?

- [ ] A) -12°C
- [ ] B) 18°C
- [ ] C) -18°C
- [ ] D) -19°C
- [ ] E) 12°C

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9 What is -7 - 2?

- [ ] A) -8
- [ ] B) -5
- [ ] C) -9
- [ ] D) -10
- [ ] E) 9

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10 The temperature in Exeter is -4°C. It rises by 9 degrees. What is the new temperature?

- [ ] A) 5°C
- [ ] B) 13°C
- [ ] C) 6°C
- [ ] D) 4°C
- [ ] E) -13°C

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11 Maya's account is overdrawn by £165, which is a balance of -£165. Maya pays in £160 and then spends £155. What is the new balance?

- [ ] A) -£159
- [ ] B) -£160
- [ ] C) £170
- [ ] D) -£480
- [ ] E) £160

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12 At 6 am the temperature in Cardiff was -9°C. By 2 pm it was 17°C. By how many degrees did it rise?

- [ ] A) -26°C
- [ ] B) 27°C
- [ ] C) 8°C
- [ ] D) 25°C
- [ ] E) 26°C

---

13 Maya's account is overdrawn by £125, which is a balance of -£125. Maya pays in £15 and then spends £40. What is the new balance?

- [ ] A) -£150
- [ ] B) -£180
- [ ] C) -£25
- [ ] D) -£149
- [ ] E) £100

---

14 What is 18 + 4?

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

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15 Ethan's account is overdrawn by £120, which is a balance of -£120. Ethan pays in £45 and then spends £135. What is the new balance?

- [ ] A) -£209
- [ ] B) -£210
- [ ] C) -£300
- [ ] D) £30
- [ ] E) -£90

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16 What is -20 + (-5)?

- [ ] A) 25
- [ ] B) -15
- [ ] C) -24
- [ ] D) -25
- [ ] E) -26

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17 The temperature in Inverness is 5°C. It falls by 11 degrees. What is the new temperature?

- [ ] A) -5°C
- [ ] B) 16°C
- [ ] C) -6°C
- [ ] D) 6°C
- [ ] E) -16°C

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18 Amara's account is overdrawn by £250, which is a balance of -£250. Amara pays in £75 and then spends £20. What is the new balance?

- [ ] A) -£155
- [ ] B) -£196
- [ ] C) £305
- [ ] D) -£195
- [ ] E) -£345

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19 What is 18 + (-20)?

- [ ] A) 38
- [ ] B) -2
- [ ] C) -1
- [ ] D) -38
- [ ] E) 2

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20 The temperature in Belfast is -5°C. It rises by 12 degrees. What is the new temperature?

- [ ] A) 8°C
- [ ] B) -17°C
- [ ] C) 17°C
- [ ] D) -7°C
- [ ] E) 7°C

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21 What is -10 + 6?

- [ ] A) -4
- [ ] B) -3
- [ ] C) -16
- [ ] D) -5
- [ ] E) 16

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22 The temperature in Aberdeen is -9°C. It rises by 5 degrees. What is the new temperature?

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

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23 Ben's account is overdrawn by £30, which is a balance of -£30. Ben pays in £15 and then spends £180. What is the new balance?

- [ ] A) -£195
- [ ] B) -£225
- [ ] C) -£135
- [ ] D) -£165
- [ ] E) -£196

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24 The temperature in Belfast was 7°C at noon and -8°C at midnight. By how many degrees did it fall?

- [ ] A) 1°C
- [ ] B) 16°C
- [ ] C) -1°C
- [ ] D) 14°C
- [ ] E) 15°C

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25 Oliver's account is overdrawn by £140, which is a balance of -£140. Oliver pays in £50 and then spends £30. What is the new balance?

- [ ] A) £160
- [ ] B) -£120
- [ ] C) -£121
- [ ] D) -£220
- [ ] E) £120

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26 What is 4 - 1?

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

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27 Aisha's account is overdrawn by £60, which is a balance of -£60. Aisha pays in £70 and then spends £165. What is the new balance?

- [ ] A) -£295
- [ ] B) -£155
- [ ] C) -£35
- [ ] D) -£156
- [ ] E) -£154

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28 What is 18 + 20?

- ☐ A) -38
- ☐ B) 37
- ☐ C) 39
- ☐ D) -2
- ☐ E) 38

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29 The temperature in Leeds is -5°C. It rises by 6 degrees. What is the new temperature?

- ☐ A) 11°C
- ☐ B) -11°C
- ☐ C) 1°C
- ☐ D) 2°C
- ☐ E) 0°C

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30 A pond's temperature is reduced by 5 degrees and becomes -2 degrees. What was the temperature before the reduction?

(2)

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31 Calculate -3 - (-8).

(1)

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Mark scheme · 2.84 Negative Numbers in Context: 30-minute Pack

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

Question 1

correct option B (-£130) cao **B1**

Answer: B) -£130

Question 2

correct option A (15°C) cao **B1**

Answer: A) 15°C

Question 3

correct option D (-£240) cao **B1**

Answer: D) -£240

Question 4

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

Answer: E) 6

Question 5

correct option E (-3°C) cao **B1**

Answer: E) -3°C

Question 6

correct option A (-£200) cao **B1**

Answer: A) -£200

Question 7

correct option D (-34) cao **B1**

Answer: D) -34

Question 8

correct option C (-18°C) cao **B1**

Answer: C) -18°C

Question 9

correct option C (-9) cao **B1**

Answer: C) -9

Question 10

correct option A (5°C) cao **B1**

Answer: A) 5°C

Question 11

correct option B (-£160) cao **B1**

Answer: B) -£160

Question 12

correct option E (26°C) cao **B1**

Answer: E) 26°C

Question 13

correct option A (-£150) cao **B1**

Answer: A) -£150

Question 14

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

Answer: D) 22

Question 15

correct option B (-£210) cao **B1**

Answer: B) -£210

Question 16

correct option D (-25) cao **B1**

Answer: D) -25

Question 17

correct option C (-6°C) cao **B1**

Answer: C) -6°C

Question 18

correct option D (-£195) cao **B1**

Answer: D) -£195

Question 19

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

Answer: B) -2

Question 20

correct option E (7°C) cao **B1**

Answer: E) 7°C

Question 21

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

Answer: A) -4

Question 22

correct option D (-4°C) cao **B1**

Answer: D) -4°C

Question 23

correct option A (-£195) cao **B1**

Answer: A) -£195

Question 24

correct option E (15°C) cao **B1**

Answer: E) 15°C

Question 25

correct option B (-£120) cao **B1**

Answer: B) -£120

Question 26

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

Answer: A) 3

Question 27

correct option B (-£155) cao **B1**

Answer: B) -£155

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Question 28

correct option E (38) cao	**B1**

Answer: E) 38

Question 29

correct option C (1°C) cao	**B1**

Answer: C) 1°C

Question 30

correct equation or method seen (x - 5 = -2 or x + (-5) = -2)	**M1**
3°C cao	**A1**

Answer: 3°C

Question 31

5 cao	**B1**

Answer: 5

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