2.84 Negative Numbers in Context: 10-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Ffion's account is overdrawn by £35, which is a balance of -£35. Ffion pays in £35 and then spends £155. What is the new balance?

- [ ] A) £155
- [ ] B) -£85
- [ ] C) -£156
- [ ] D) -£155
- [ ] E) -£225

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2 What is 3 + (-18)?

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

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3 The temperature in Aberdeen is 6°C. It falls by 9 degrees. What is the new temperature?

- [ ] A) 15°C
- [ ] B) 3°C
- [ ] C) -2°C
- [ ] D) -4°C
- [ ] E) -3°C

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4 What is 8 + 16?

- ☐ A) 23
- ☐ B) 24
- ☐ C) -8
- ☐ D) 8
- ☐ E) -24

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5 The temperature in York was 4°C at noon and -11°C at midnight. By how many degrees did it fall?

- ☐ A) 7°C
- ☐ B) 11°C
- ☐ C) -7°C
- ☐ D) 15°C
- ☐ E) 14°C

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6 Aisha has £12 in her bank account. She withdraws £30. What is her new balance?

(1)

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7 What is the difference between -4 and 6? (Give the distance between the numbers.)

(1)

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8 A weather station records -10 degrees. During the day it warms by 4 degrees and then by a further 7 degrees. What is the temperature at the end of the day?

(2)

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9 Order these numbers from smallest to largest: -2, -11, 3, 0, -1

(2)

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Mark scheme · 2.84 Negative Numbers in Context: 10-minute Pack

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

Question 1

correct option D (-£155) cao **B1**

Answer: D) -£155

Question 2

correct option A (-15) cao **B1**

Answer: A) -15

Question 3

correct option E (-3°C) cao **B1**

Answer: E) -3°C

Question 4

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

Answer: B) 24

Question 5

correct option D (15°C) cao **B1**

Answer: D) 15°C

Question 6

-£18 cao **B1**

Answer: -£18 (an overdraft of £18)

Question 7

10 cao **B1**

Answer: 10

Question 8

correct intermediate step seen (-10 + 4 = -6) **M1**

final answer 1°C cao **A1**

Answer: 1°C

Question 9

identify smallest and largest correctly oe (smallest = -11, largest = 3) **M1**

fully correct order: -11, -2, -1, 0, 3 cao **A1**

Answer: -11, -2, -1, 0, 3

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