2.1-4 Number and Place Value: Practice Set 4: 30-minute Pack

Total Marks

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A lift is at floor 2. It travels down 6 floors to the underground car park, then travels up 9 floors to reach the gym. Which floor is the gym on?

(2)

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2 A charity run covers a distance of 21,483 m. Round this distance to:

(a) 2 significant figures **(1)**

(b) 3 significant figures **(1)**

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3 Write these numbers in order, starting with the largest: -0.9, 0.45, -1.2, 0.09, -0.09

(2)

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4 Round 3,647,900 to the nearest million. Circle the correct answer.

- ☐ A) 3,000,000
- ☐ B) 3,600,000
- ☐ C) 3,650,000
- ☐ D) 4,000,000
- ☐ E) 4,600,000

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5 A charity shop's till roll shows total sales of £6,382 for the month.

(a) Round the total to the nearest £100. **(1)**

(b) State the value of the digit 3 in £6,382. **(1)**

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6 Work out (48 x 1000) / 100.

(2)

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7 A company's turnover for the year is £8,562,300.

(a) State the value of the digit 5 in £8,562,300. **(1)**

(b) Round £8,562,300 to the nearest £100,000. **(1)**

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8 Nadia is thinking of a 3-digit number. Its digit sum is 16. Its units digit is 4. Its hundreds digit is 3 times its tens digit. What is Nadia's number?

(2)

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9 A theatre's box office reports total attendance of 54,318 across a season.

(a) Round this attendance to the nearest 1,000. **(1)**

(b) A different report rounds the same attendance to the nearest 10,000. **(1)**

(c) Find the difference between the two rounded figures. **(1)**

.....

10 I am a 4-digit number. All four of my digits are different and none of them is zero. My thousands digit is 1. My tens digit is 5. My units digit is 3 times my hundreds digit. My digit sum is 14. What number am I?

(3)

11 Using each of the digits 3, 8, 1 and 6 exactly once, write the largest possible 4-digit even number.

(2)

12 A crane lifts a shipping container that starts at ground level (0 m). It lowers the container 12 m into a ship's hold, then raises it 5 m, then lowers it a further 9 m to its final position. What is the height of the final position, relative to ground level?

(3)

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13 Round 27,463 to the nearest 100. Circle the correct answer.

- ☐ A) 27,000
- ☐ B) 27,400
- ☐ C) 27,460
- ☐ D) 27,500
- ☐ E) 28,000

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14 Write the number that is 1,000 more than 68,745.

(1)

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15 Round 74,382 to the nearest 1,000. Circle the correct answer.

- ☐ A) 74,000
- ☐ B) 74,300
- ☐ C) 74,400
- ☐ D) 75,000
- ☐ E) 80,000

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16 Write <, > or = between these numbers: 0.6 ___ 0.58

(1)

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17 What is the value of the digit 7 in 4.375? Circle the correct answer.

- ☐ A) 7
- ☐ B) 0.7
- ☐ C) 0.07
- ☐ D) 0.007
- ☐ E) 70

---

18 Round 9.0648 to 2 decimal places. Circle the correct answer.

- ☐ A) 9.06
- ☐ B) 9.07
- ☐ C) 9.1
- ☐ D) 9.065
- ☐ E) 9.60

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Mark scheme · 2.1-4 Number and Place Value: Practice Set 4: 30-minute Pack

Question 1

correct car park floor found, 2 - 6 = -4 **M1**

floor 5 cao **A1**

Answer: Floor 5

Question 2

(a) 21,000 m cao **B1**

(a) Answer: 21,000 m

(b) 21,500 m cao **B1**

(b) Answer: 21,500 m

Question 3

Correctly identifies that both positive numbers come before any negative number (oe) **M1**

0.45, 0.09, -0.09, -0.9, -1.2 cao **A1**

Answer: 0.45, 0.09, -0.09, -0.9, -1.2

Question 4

D) 4,000,000 cao **B1**

Answer: 4,000,000

Question 5

(a) £6,400 cao **B1**

(a) Answer: £6,400

(b) £300 oe **B1**

(b) Answer: £300

Question 6

correct intermediate step, 48 x 1000 = 48,000 **M1**

480 cao **A1**

Answer: 480

Question 7

(a) £500,000 oe **B1**

(a) Answer: £500,000

(b) £8,600,000 cao **B1**

(b) Answer: £8,600,000

Question 8

correct equation or systematic trial, e.g. 3t + t + 4 = 16 **M1**

934 cao **A1**

Answer: 934

Question 9

(a) 54,000 cao **B1**

(a) Answer: 54,000

(b) 50,000 cao **B1**

(b) Answer: 50,000

(c) 4,000 cao (ft from parts a and b) **B1**

(c) Answer: 4,000

Question 10

sets up a correct relationship between the hundreds and units digits, e.g. units = 3 x hundreds **M1**

correct equation using the digit sum leading to hundreds = 2, units = 6, e.g. 1 + h + 5 + 3h = 14 **M1**

1,256 cao, with all four digits shown to be different and non-zero **A1**

Answer: 1,256

Question 11

recognises the units digit must be even (6 or 8) and tests both cases (oe) **M1**

8,316 cao **A1**

Answer: 8,316

Question 12

first stage correct, 0 - 12 = -12 **M1**

second stage correct, -12 + 5 = -7 **M1**

-16 m cao **A1**

Answer: -16 m (16 m below ground level)

Question 13

D) 27,500 cao **B1**

Answer: 27,500

Question 14

69,745 cao **B1**

Answer: 69,745

Question 15

A) 74,000 cao **B1**

Answer: 74,000

Question 16

0.6 > 0.58 cao **B1**

Answer: 0.6 > 0.58

Question 17

C) 0.07 cao **B1**

Answer: 0.07

Question 18

A) 9.06 cao **B1**

Answer: 9.06

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