2.1 Place Value and Ordering: 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 One January morning, the temperatures in five UK cities were recorded: London -2C, Aberdeen -7C, Cardiff 1C, Belfast -4C, Manchester -1C.

(a) Which city was coldest? **(1)**

(b) List all five temperatures in order from coldest to warmest, naming each city. **(2)**

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2 Which number is equal to 3 x 10,000 + 5 x 100 + 8?

- ☐ A) 3,508
- ☐ B) 30,058
- ☐ C) 35,008
- ☐ D) 30,508
- ☐ E) 30,580

---

3 How many hundredths are there in 2.5?

- ☐ A) 25
- ☐ B) 250
- ☐ C) 50
- ☐ D) 2,500
- ☐ E) 0.25

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4 Decimals in words.

(a) Write 'four and seven hundredths' as a decimal. **(1)**

(b) Write 6.05 in words. **(1)**

---

5 Five children took part in a long jump competition. Mo jumped 5.4 m, Lena jumped 5.04 m, Jamal jumped 5.35 m, Kira jumped 4.58 m and Ravi jumped 4.9 m.

(a) Who jumped the furthest? **(1)**

(b) How much further did the child who jumped the furthest go than the child who jumped the shortest distance? **(2)**

.....

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6 In the number 58.436, what is the value of the digit 3?

- ☐ A) 3
- ☐ B) 0.3
- ☐ C) 0.03
- ☐ D) 0.003
- ☐ E) 30

---

7 In the number 47,208, what is the value of the digit 4?

- ☐ A) 4
- ☐ B) 40
- ☐ C) 400
- ☐ D) 4,000
- ☐ E) 40,000

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8 How many tens are there in 5,690?

- [ ] A) 569
- [ ] B) 568
- [ ] C) 570
- [ ] D) 5,690
- [ ] E) 56.9

---

9 What is 5/10 + 3/1000 written as a decimal?

- [ ] A) 0.053
- [ ] B) 0.530
- [ ] C) 0.008
- [ ] D) 0.503
- [ ] E) 0.305

---

10 What number is made from 5 ten thousands, 9 hundreds and 1 unit?

- [ ] A) 50,900
- [ ] B) 50,901
- [ ] C) 591
- [ ] D) 50,902
- [ ] E) 509,010

---

11 In the number 7,391.208, what is the value of the digit 1?

- [ ] A) 1
- [ ] B) 100
- [ ] C) 10
- [ ] D) 0.1
- [ ] E) 0.01

---

12 How many hundreds are there in 5,900?

- [ ] A) 5,900
- [ ] B) 60
- [ ] C) 5.9
- [ ] D) 590
- [ ] E) 59

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13 What is 10,000 less than 98,080?

- [ ] A) 88,081
- [ ] B) 87,080
- [ ] C) 97,080
- [ ] D) 88,080
- [ ] E) -1,920

---

14 The temperature in Reykjavik is -8C. The temperature in Cardiff is 2C. How many degrees warmer is Cardiff than Reykjavik?

- [ ] A) 2 degrees
- [ ] B) -6 degrees
- [ ] C) 10 degrees
- [ ] D) 6 degrees
- [ ] E) 8 degrees

---

15 What number is made from 9 ten thousands, 7 hundreds and 9 units?

- [ ] A) 90,708
- [ ] B) 979
- [ ] C) 97,009
- [ ] D) 90,709
- [ ] E) 907,090

---

16 How many tens are there in 3,160?

- [ ] A) 315
- [ ] B) 317
- [ ] C) 316
- [ ] D) 3,160
- [ ] E) 31.6

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17 What is 20,000 more than 78,458?

- ☐ A) 80,458
- ☐ B) 98,457
- ☐ C) 98,458
- ☐ D) 99,458
- ☐ E) 278,458

---

18 What is 5/10 + 8/1000 written as a decimal?

- ☐ A) 0.508
- ☐ B) 0.058
- ☐ C) 0.013
- ☐ D) 0.580
- ☐ E) 0.805

---

19 What number is made from 9 ten thousands, 8 thousands and 5 units?

- ☐ A) 98,006
- ☐ B) 170,005
- ☐ C) 985
- ☐ D) 980,050
- ☐ E) 98,005

---

20 In the number 86,395, what is the value of the digit 3?

- ☐ A) 3
- ☐ B) 30
- ☐ C) 3,000
- ☐ D) 300
- ☐ E) 30,000

---

21 Round each number to the given number of significant figures.

(a) Round 6,482 to 1 significant figure. **(1)**

(b) Round 0.03567 to 2 significant figures. **(1)**

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22 Explain why -8 is less than -3, even though 8 is greater than 3.

(2)

---

23 Which of these numbers is less than -6.5?

- ☐ A) -6.2
- ☐ B) -6.5
- ☐ C) -5
- ☐ D) -7
- ☐ E) -6.05

---

24 Using each of the digits 3, 5 and 8 exactly once, how many different 3-digit numbers greater than 500 can be made?

(2)

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Mark scheme · 2.1 Place Value and Ordering: 30-minute Pack

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

Question 1

(a) Aberdeen cao **B1**

(a) Answer: Aberdeen

(b) correct coldest (Aberdeen, -7C) and correct warmest (Cardiff, 1C) identified ft from part (a) **M1**

(b) fully correct order: Aberdeen -7C, Belfast -4C, London -2C, Manchester -1C, Cardiff 1C cao **A1**

(b) Answer: Aberdeen -7C, Belfast -4C, London -2C, Manchester -1C, Cardiff 1C

Question 2

correct option D (30,508) cao **B1**

Answer: D) 30,508

Question 3

correct option B (250) cao **B1**

Answer: B) 250

Question 4

(a) 4.07 cao **B1**

(a) Answer: 4.07

(b) six point zero five, or six and five hundredths, oe (accept 'six point oh five') **B1**

(b) Answer: six point zero five (or six and five hundredths)

Question 5

(a) Mo cao **B1**

(a) Answer: Mo

(b) 5.4 - 4.58 (or 5.40 - 4.58) seen, or equivalent complete method, ft from (a) and the shortest jump **M1**

(b) 0.82 m cao (accept 82 cm) **A1**

(b) Answer: 0.82 m

Question 6

correct option C (0.03) cao **B1**

Answer: C) 0.03

Question 7

correct option E (40,000) cao **B1**

Answer: E) 40,000

Question 8

correct option A (569) cao **B1**

Answer: A) 569

Question 9

correct option D (0.503) cao **B1**

Answer: D) 0.503

Question 10

correct option B (50,901) cao **B1**

Answer: B) 50,901

Question 11

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

Answer: A) 1

Question 12

correct option E (59) cao **B1**

Answer: E) 59

Question 13

correct option D (88,080) cao **B1**

Answer: D) 88,080

Question 14

correct option C (10 degrees) cao **B1**

Answer: C) 10 degrees

Question 15

correct option D (90,709) cao **B1**

Answer: D) 90,709

Question 16

correct option C (316) cao **B1**

Answer: C) 316

Question 17

correct option C (98,458) cao **B1**

Answer: C) 98,458

Question 18

correct option A (0.508) cao **B1**

Answer: A) 0.508

Question 19

correct option E (98,005) cao **B1**

Answer: E) 98,005

Question 20

correct option D (300) cao **B1**

Answer: D) 300

Question 21

(a) 6,000 cao **B1**

(a) Answer: 6,000

(b) 0.036 cao **B1**

(b) Answer: 0.036

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Question 22

states that on a number line, numbers further to the left (or further below zero) are smaller, oe reference to distance from zero in the negative direction	**B1**
correctly concludes -8 is further from zero than -3 in the negative direction, so -8 is the smaller (more negative) number cao	**B1**

Answer: For negative numbers, the one further from zero is smaller, not larger; -8 is further below zero than -3, so -8 < -3 even though 8 > 3.

Question 23

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

Answer: D) -7

Question 24

systematic list or clear method: numbers starting with 5 or 8 only (538, 583, 835, 853), or lists all six arrangements	**M1**
4 cao	**A1**

Answer: 4 numbers

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