2.1 Place Value and Ordering: 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 A number is exactly halfway between 4.2 and 4.5. What is the number?

(2)

---

2 The population of a UK town is 128,674.

(a) Round 128,674 to the nearest thousand. **(1)**

(b) Round 128,674 to the nearest ten thousand. **(1)**

(c) What is the value of the digit 2 in 128,674? **(1)**

---

3 Using each of the digits 2, 0, 7 and 9 exactly once, write the largest and smallest possible 4-digit numbers. The smallest number must not start with 0.

(a) Largest possible number **(1)**

(b) Smallest possible number **(1)**

© Revision Library | revisionlibrary.co.uk

4 Work out each answer.

(a) What is 10,000 more than 396,250? **(1)**

(b) What is 1,000 less than 20,400? **(1)**

5 Which of these numbers is closest to 4,000?

- ☐ A) 3,890
- ☐ B) 4,105
- ☐ C) 4,070
- ☐ D) 4,090
- ☐ E) 3,950

6 Write the correct symbol, < , > or = , between each pair of numbers.

(a) 0.7 ___ 0.65 **(1)**

(b) 0.09 ___ 0.9 **(1)**

7 Work out each calculation.

(a) 6.3 x 100 **(1)**

(b) 4,500 / 1000 **(1)**

(c) 0.72 x 10 **(1)**

© Revision Library | revisionlibrary.co.uk

8 Order these decimals from largest to smallest: 0.8, 0.08, 0.85, 0.508, 0.58

(2)

---

9 Write the number 'three thousand and sixty-five' in figures.

(1)

---

10 Fill in the missing number in this sequence: 2.5, 25, 250, ____, 25000

(1)

---

11 What is 1,000 less than 9,230?

- ☐ A) 9,130
- ☐ B) 8,230
- ☐ C) 10,230
- ☐ D) 8,130
- ☐ E) -770

---

12 In the number 72,543.89, what is the value of the digit 4?

- ☐ A) 0.4
- ☐ B) 40
- ☐ C) 4,000
- ☐ D) 4
- ☐ E) 400

© Revision Library | revisionlibrary.co.uk

13 The temperature in Reykjavik is -12C. The temperature in Cardiff is 4C. How many degrees warmer is Cardiff than Reykjavik?

- [ ] A) -8 degrees
- [ ] B) 16 degrees
- [ ] C) 12 degrees
- [ ] D) 4 degrees
- [ ] E) 8 degrees

---

14 What number is made from 7 ten thousands, 6 tens and 9 units?

- [ ] A) 70,609
- [ ] B) 70,069
- [ ] C) 700,690
- [ ] D) 70,070
- [ ] E) 769

---

15 What number is made from 4 ten thousands, 6 thousands and 9 units?

- [ ] A) 469
- [ ] B) 46,008
- [ ] C) 46,010
- [ ] D) 46,009
- [ ] E) 460,090

---

16 What number is made from 4 thousands, 2 tens and 3 units?

- [ ] A) 40,230
- [ ] B) 4,022
- [ ] C) 324
- [ ] D) 423
- [ ] E) 4,023

© Revision Library | revisionlibrary.co.uk

17 What number is made from 6 ten thousands, 5 hundreds and 1 ten?

- ☐ A) 156
- ☐ B) 60,510
- ☐ C) 651
- ☐ D) 605,100
- ☐ E) 60,509

---

18 What number is made from 8 hundreds, 4 tens and 2 units?

- ☐ A) 248
- ☐ B) 843
- ☐ C) 842
- ☐ D) 1,202
- ☐ E) 8,420

---

19 What number is made from 4 ten thousands, 1 thousand and 1 unit?

- ☐ A) 411
- ☐ B) 41,002
- ☐ C) 41,000
- ☐ D) 41,001
- ☐ E) 410,010

---

20 What is 10 less than 9,146?

- ☐ A) 9,156
- ☐ B) 9,145
- ☐ C) 9,135
- ☐ D) 9,046
- ☐ E) 9,136

---

21 Order these numbers from smallest to largest: -0.3, -0.03, -3, 0.3, -0.33

(2)

© Revision Library | revisionlibrary.co.uk

22 How many tens are there in 6,000?

- [ ] A) 601
- [ ] B) 599
- [ ] C) 6,000
- [ ] D) 60
- [ ] E) 600

---

23 In the number 13,725.684, what is the value of the digit 8?

- [ ] A) 0.008
- [ ] B) 0.0008
- [ ] C) 0.08
- [ ] D) 8
- [ ] E) 0.8

---

24 What number is made from 7 ten thousands, 8 thousands and 8 units?

- [ ] A) 788
- [ ] B) 78,009
- [ ] C) 78,008
- [ ] D) 150,008
- [ ] E) 780,080

---

25 What number is made from 4 thousands, 4 hundreds and 4 tens?

- [ ] A) 4,440
- [ ] B) 44,400
- [ ] C) 4,441
- [ ] D) 444
- [ ] E) 4,439

---

26 What number is made from 5 ten thousands, 2 thousands and 3 hundreds?

- [ ] A) 523
- [ ] B) 52,300
- [ ] C) 523,000
- [ ] D) 52,301
- [ ] E) 70,300

© Revision Library | revisionlibrary.co.uk

27 What is 10 more than 67,743?

- ☐ A) 67,753
- ☐ B) 67,744
- ☐ C) 67,843
- ☐ D) 67,752
- ☐ E) 67,733

---

28 A 4-digit whole number has these properties: the tens digit is 0; the thousands digit is double the units digit; the hundreds digit is 3 more than the thousands digit; the number is less than 3,000. Find the number.

(3)

---

29 How many tens are there in 5,900?

- ☐ A) 5,900
- ☐ B) 59
- ☐ C) 589
- ☐ D) 591
- ☐ E) 590

---

30 How many thousands are there in 778,000?

- ☐ A) 778
- ☐ B) 7,780
- ☐ C) 779
- ☐ D) 777
- ☐ E) 77.8

© Revision Library | revisionlibrary.co.uk

31 How many thousands are there in 237,000?

- ☐ A) 2,370
- ☐ B) 237
- ☐ C) 237,000
- ☐ D) 238
- ☐ E) 23.7

---

32 How many hundreds are there in 66,700?

- ☐ A) 66,700
- ☐ B) 667
- ☐ C) 66.7
- ☐ D) 6,670
- ☐ E) 668

---

33 How many tens are there in 720?

- ☐ A) 7.2
- ☐ B) 72
- ☐ C) 71
- ☐ D) 73
- ☐ E) 720

---

34 In the number 176,809.2, what is the value of the digit 6?

- ☐ A) 6,000
- ☐ B) 60,000
- ☐ C) 60
- ☐ D) 600,000
- ☐ E) 600

---

35 A whole number is rounded to the nearest 100. The answer is 5,700.

(a) Write down the smallest whole number it could be. **(1)**

(b) Write down the largest whole number it could be. **(1)**

© Revision Library | revisionlibrary.co.uk

36 Round each number to 2 decimal places.

(a) 9.996 **(1)**

(b) 0.0796 **(1)**

---

37 Kofi says, "To multiply a number by 10, you just add a zero on the end."

(a) Show that Kofi's rule gives the wrong answer for 3.2 x 10. **(1)**

(b) Explain what really happens to the digits of a number when you multiply it by 10. **(1)**

---

38 What number is made from 5 hundreds, 6 tens and 8 units?

- ☐ A) 568
- ☐ B) 1,108
- ☐ C) 865
- ☐ D) 5,680
- ☐ E) 569

---

39 What is 3,000 less than 65,290?

- ☐ A) 68,290
- ☐ B) 35,290
- ☐ C) 64,990
- ☐ D) 62,290
- ☐ E) 62,291

© Revision Library | revisionlibrary.co.uk

40 In the number 2,394.85, what is the value of the digit 4?

- [ ] A) 0.4
- [ ] B) 40
- [ ] C) 0.04
- [ ] D) 4
- [ ] E) 400

---

41 The temperature in Reykjavik is -8C. The temperature in Cardiff is 1C. How many degrees warmer is Cardiff than Reykjavik?

- [ ] A) 7 degrees
- [ ] B) 9 degrees
- [ ] C) 1 degrees
- [ ] D) 8 degrees
- [ ] E) -7 degrees

---

42 How many tens are there in 1,250?

- [ ] A) 125
- [ ] B) 126
- [ ] C) 1,250
- [ ] D) 12.5
- [ ] E) 124

---

43 What number is made from 2 hundreds, 6 tens and 8 units?

- [ ] A) 2,680
- [ ] B) 268
- [ ] C) 808
- [ ] D) 267
- [ ] E) 862

© Revision Library | revisionlibrary.co.uk

44 What is 30,000 less than 91,812?

- [ ] A) 61,812
- [ ] B) -208,188
- [ ] C) 88,812
- [ ] D) 61,813
- [ ] E) 60,812

---

45 How many thousands are there in 977,000?

- [ ] A) 97.7
- [ ] B) 9,770
- [ ] C) 977
- [ ] D) 978
- [ ] E) 977,000

---

46 In the number 3,682.79, what is the value of the digit 2?

- [ ] A) 0.02
- [ ] B) 2
- [ ] C) 0.2
- [ ] D) 20
- [ ] E) 200

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.1 Place Value and Ordering: Test Pack

Question 1

adds 4.2 and 4.5 and divides by 2 oe, e.g. finds the gap (0.3) and halves it (0.15) **M1**

4.35 cao **A1**

Answer: 4.35

Question 2

(a) 129,000 cao **B1**

(a) Answer: 129,000

(b) 130,000 cao **B1**

(b) Answer: 130,000

(c) 20,000 cao **B1**

(c) Answer: 20,000

Question 3

(a) 9,720 cao **B1**

(a) Answer: 9,720

(b) 2,079 cao **B1**

(b) Answer: 2,079

Question 4

(a) 406,250 cao **B1**

(a) Answer: 406,250

(b) 19,400 cao **B1**

(b) Answer: 19,400

Question 5

correct option E (3,950) cao **B1**

Answer: E) 3,950

Question 6

(a) > cao **B1**

(a) Answer: 0.7 > 0.65

(b) < cao **B1**

(b) Answer: 0.09 < 0.9

Question 7

(a) 630 cao **B1**

(a) Answer: 630

(b) 4.5 cao **B1**

(b) Answer: 4.5

(c) 7.2 cao **B1**

(c) Answer: 7.2

Question 8

correct largest (0.85) and correct smallest (0.08) identified oe, ft from a partially correct list **M1**

fully correct order: 0.85, 0.8, 0.58, 0.508, 0.08 cao **A1**

Answer: 0.85, 0.8, 0.58, 0.508, 0.08

Question 9

3,065 cao **B1**

Answer: 3,065

Question 10

2,500 cao **B1**

Answer: 2,500

Question 11

correct option B (8,230) cao **B1**

Answer: B) 8,230

Question 12

correct option B (40) cao **B1**

Answer: B) 40

Question 13

correct option B (16 degrees) cao **B1**

Answer: B) 16 degrees

Question 14

correct option B (70,069) cao **B1**

Answer: B) 70,069

Question 15

correct option D (46,009) cao **B1**

Answer: D) 46,009

Question 16

correct option E (4,023) cao **B1**

Answer: E) 4,023

Question 17

correct option B (60,510) cao **B1**

Answer: B) 60,510

Question 18

correct option C (842) cao **B1**

Answer: C) 842

Question 19

correct option D (41,001) cao **B1**

Answer: D) 41,001

Question 20

correct option E (9,136) cao **B1**

Answer: E) 9,136

Question 21

correctly places -3 as smallest and 0.3 as largest oe, ft from a partially correct list **M1**

fully correct order: -3, -0.33, -0.3, -0.03, 0.3 cao **A1**

Answer: -3, -0.33, -0.3, -0.03, 0.3

Question 22

correct option E (600) cao **B1**

Answer: E) 600

Question 23

correct option C (0.08) cao **B1**

Answer: C) 0.08

© Revision Library | revisionlibrary.co.uk

Question 24

correct option C (78,008) cao **B1**

Answer: C) 78,008

Question 25

correct option A (4,440) cao **B1**

Answer: A) 4,440

Question 26

correct option B (52,300) cao **B1**

Answer: B) 52,300

Question 27

correct option A (67,753) cao **B1**

Answer: A) 67,753

Question 28

sets up thousands digit = 2 x units digit and tests possible values (units = 1,2,3 giving thousands = 2,4,6) oe **M1**

applies hundreds digit = thousands + 3 and the constraint 'less than 3,000' to eliminate other cases, identifying thousands = 2, units = 1, hundreds = 5 **M1**

2,501 cao **A1**

Answer: 2,501

Question 29

correct option E (590) cao **B1**

Answer: E) 590

Question 30

correct option A (778) cao **B1**

Answer: A) 778

Question 31

correct option B (237) cao **B1**

Answer: B) 237

Question 32

correct option B (667) cao **B1**

Answer: B) 667

Question 33

correct option B (72) cao **B1**

Answer: B) 72

Question 34

correct option A (6,000) cao **B1**

Answer: A) 6,000

Question 35

(a) 5,650 cao **B1**

(a) Answer: 5,650

(b) 5,749 cao **B1**

(b) Answer: 5,749

Question 36

(a) 10.00 cao (accept 10) **B1**

(a) Answer: 10.00

(b) 0.08 cao **B1**

(b) Answer: 0.08

Question 37

(a) states Kofi's rule gives 3.20 and the correct answer is 32 (3.20 is only 3.2), oe **B1**

(a) Answer: Kofi's rule gives 3.20, but 3.2 x 10 = 32.

(b) each digit moves one place to the left (into a column worth 10 times more), oe **B1**

(b) Answer: Each digit moves one place to the left, so it is worth 10 times as much.

Question 38

correct option A (568) cao **B1**

Answer: A) 568

Question 39

correct option D (62,290) cao **B1**

Answer: D) 62,290

Question 40

correct option D (4) cao **B1**

Answer: D) 4

Question 41

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

Answer: B) 9 degrees

Question 42

correct option A (125) cao **B1**

Answer: A) 125

Question 43

correct option B (268) cao **B1**

Answer: B) 268

Question 44

correct option A (61,812) cao **B1**

Answer: A) 61,812

Question 45

correct option C (977) cao **B1**

Answer: C) 977

Question 46

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

Answer: B) 2

© Revision Library | revisionlibrary.co.uk