2.76 Decimal Place Value and Powers of Ten: Test Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 35 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 In the number 3.405, what is the value of the digit 4?

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

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2 Calculate 7.005 multiplied by 1000.

- [ ] A) 7.005
- [ ] B) 700.5
- [ ] C) 70.05
- [ ] D) 7005
- [ ] E) 0.7005

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3 Divide 45.6 by 100. Give your answer as a decimal.

(2)

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4 What is 799.4 multiplied by 10?

- [ ] A) 79.94
- [ ] B) 7,995
- [ ] C) 79,940
- [ ] D) 799.4
- [ ] E) 7,994

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5 What is 0.468 multiplied by 10?

- ☐ A) 3.68
- ☐ B) 4.68
- ☐ C) 46.8
- ☐ D) 0.0468
- ☐ E) 5.68

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6 What is 1.697 multiplied by 1,000?

- ☐ A) 16,970
- ☐ B) 0.001697
- ☐ C) 1,697
- ☐ D) 1,697,000
- ☐ E) 1,696

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7 What is 95.7 multiplied by 1,000?

- ☐ A) 95,701
- ☐ B) 0.0957
- ☐ C) 957,000
- ☐ D) 95,700
- ☐ E) 9,570

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8 Order these numbers from smallest to largest: 0.5, 0.47, 0.503

(2)

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9 What is 56.03 multiplied by 10?

- ☐ A) 5.603
- ☐ B) 56,030
- ☐ C) 5,603
- ☐ D) 559.3
- ☐ E) 560.3

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10 Write 0.007 to the nearest thousandth.

(2)

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11 What is 263.9 divided by 100?

- ☐ A) 2.639
- ☐ B) 26,390
- ☐ C) 1.639
- ☐ D) 0.2639
- ☐ E) 3.639

---

12 What is 4.148 divided by 1,000?

- ☐ A) 0.0004148
- ☐ B) 0.04148
- ☐ C) 4.148
- ☐ D) 4,148
- ☐ E) 0.004148

---

13 What is 39.22 divided by 1,000?

- ☐ A) 39,220
- ☐ B) 0.003922
- ☐ C) 0.3922
- ☐ D) 39.22
- ☐ E) 0.03922

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14 Express 4.2 as a number of tenths and then as a number of hundredths.

(2)

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15 0.305, 0.35, 0.3005, 0.3050

(1)

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16 Sonia has £12.345 in a savings pot. She withdraws £2.5, then adds £0.055. Work out her final balance to three decimal places.

(4)

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17 Order these numbers from largest to smallest: 0.123, 0.1205, 0.1230

(3)

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18 What is 65.31 divided by 1,000?

- ☐ A) 1.06531
- ☐ B) 0.6531
- ☐ C) 0.006531
- ☐ D) 0.06531
- ☐ E) 65,310

---

19 What is 41.34 divided by 100?

- ☐ A) 4,134
- ☐ B) 0.4134
- ☐ C) 1.4134
- ☐ D) 0.04134
- ☐ E) 41.34

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20 What is 1,886 divided by 10?

- [ ] A) 18.86
- [ ] B) 18,860
- [ ] C) 188.6
- [ ] D) 189.6
- [ ] E) 187.6

---

21 What is 0.391 divided by 100?

- [ ] A) 0.00391
- [ ] B) 1.00391
- [ ] C) 0.000391
- [ ] D) 0.0391
- [ ] E) 39.1

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22 What is 53 divided by 1,000?

- [ ] A) 53,000
- [ ] B) 53
- [ ] C) 0.53
- [ ] D) 0.0053
- [ ] E) 0.053

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23 What is 2.666 divided by 10?

- [ ] A) 0.02666
- [ ] B) 26.66
- [ ] C) 0.2666
- [ ] D) 1.2666
- [ ] E) 2.666

---

24 What is 85.1 multiplied by 1,000?

- [ ] A) 851,000
- [ ] B) 85,100
- [ ] C) 8,510
- [ ] D) 0.0851
- [ ] E) 85,101

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25 What is 7.342 multiplied by 10?

- [ ] A) 73.42
- [ ] B) 0.7342
- [ ] C) 74.42
- [ ] D) 72.42
- [ ] E) 734.2

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26 What is 594.3 multiplied by 10?

- [ ] A) 59,430
- [ ] B) 5,944
- [ ] C) 5,943
- [ ] D) 5,942
- [ ] E) 59.43

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27 What is 47.8 multiplied by 100?

- [ ] A) 4,779
- [ ] B) 47,800
- [ ] C) 4,780
- [ ] D) 4,781
- [ ] E) 0.478

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28 What is 10.3 multiplied by 10?

- [ ] A) 103
- [ ] B) 1,030
- [ ] C) 102
- [ ] D) 104
- [ ] E) 1.03

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Mark scheme · 2.76 Decimal Place Value and Powers of Ten: Test Pack

Question 1

correct option B (0.4) cao **B1**

Answer: B) 0.4 (the 4 is in the tenths place: 4 x 0.1 = 0.4).

Question 2

correct option D (7005) cao **B1**

Answer: D) 7005 (shift decimal 3 places right).

Question 3

divide 45.6 by 100 (decimal moved 2 places left) **M1**

0.456 cao **A1**

Answer: 0.456

Question 4

correct option E (7,994) cao **B1**

Answer: E) 7,994

Question 5

correct option B (4.68) cao **B1**

Answer: B) 4.68

Question 6

correct option C (1,697) cao **B1**

Answer: C) 1,697

Question 7

correct option D (95,700) cao **B1**

Answer: D) 95,700

Question 8

correct smallest and largest identified (0.47 and 0.503) oe **M1**

complete order: 0.47, 0.5, 0.503 cao **A1**

Answer: 0.47, 0.5, 0.503

Question 9

correct option E (560.3) cao **B1**

Answer: E) 560.3

Question 10

identify thousandth place and consider following digit (here no following digit or zero) **M1**

0.007 cao **A1**

Answer: 0.007

Question 11

correct option A (2.639) cao **B1**

Answer: A) 2.639

Question 12

correct option E (0.004148) cao **B1**

Answer: E) 0.004148

Question 13

correct option E (0.03922) cao **B1**

Answer: E) 0.03922

Question 14

convert 4.2 to tenths or hundredths (showing method) **M1**

42 tenths and 420 hundredths cao **A1**

Answer: 42 tenths; 420 hundredths

Question 15

correct option C (0.3005) cao **B1**

Answer: C) 0.3005 (this is the smallest because 0.3005 < 0.305).

Question 16

subtract 2.5 from 12.345 (showing intermediate step) **M1**

add 0.055 to result (intermediate step) **M1**

9.900 cao **A1**

final answer given correct to three decimal places 9.900 cao **A1**

Answer: £9.900

Question 17

compare correct largest and smallest digits (recognise that 0.123 and 0.1230 are equal) **M1**

place 0.1205 correctly between others **M1**

complete correct order: 0.123, 0.1230, 0.1205 cao **A1**

Answer: 0.123, 0.1230, 0.1205

Question 18

correct option D (0.06531) cao **B1**

Answer: D) 0.06531

Question 19

correct option B (0.4134) cao **B1**

Answer: B) 0.4134

Question 20

correct option C (188.6) cao **B1**

Answer: C) 188.6

Question 21

correct option A (0.00391) cao **B1**

Answer: A) 0.00391

Question 22

correct option E (0.053) cao **B1**

Answer: E) 0.053

Question 23

correct option C (0.2666) cao **B1**

Answer: C) 0.2666

Question 24

correct option B (85,100) cao **B1**

Answer: B) 85,100

Question 25

correct option A (73.42) cao **B1**

Answer: A) 73.42

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Question 26

correct option C (5,943) cao **B1**

Answer: C) 5,943

Question 27

correct option C (4,780) cao **B1**

Answer: C) 4,780

Question 28

correct option A (103) cao **B1**

Answer: A) 103

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