# 2.77 Rounding and Estimating to Check an Answer: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** The crowd at a match was 27,000 to the nearest 1000. What is the smallest whole number it could be?

- ☐ A) 26,500
- ☐ B) 26,499
- ☐ C) 26,501
- ☐ D) 27,500
- ☐ E) 26,000

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**2** Estimate the value of 94.2 x 4.4 by rounding each number to 1 significant figure.

- ☐ A) 3,600
- ☐ B) 414.48
- ☐ C) 396
- ☐ D) 36
- ☐ E) 360

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**3** The number of visitors to a museum was 3,400 to the nearest 100. What is the largest whole number it could be?

- ☐ A) 3,500
- ☐ B) 3,450
- ☐ C) 3,349
- ☐ D) 3,449
- ☐ E) 3,451


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**4** The number of visitors to a museum was 680 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 676
- [ ] B) 675
- [ ] C) 685
- [ ] D) 670
- [ ] E) 674

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**5** Estimate the value of 49.4 x 4.1 by rounding each number to 1 significant figure.

- [ ] A) 20
- [ ] B) 54
- [ ] C) 2,000
- [ ] D) 205
- [ ] E) 200

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**6** A town's population was 9,900 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 9,850
- [ ] B) 9,849
- [ ] C) 9,950
- [ ] D) 9,800
- [ ] E) 9,851

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**7** A town's population was 46,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 45,499
- [ ] B) 45,000
- [ ] C) 46,500
- [ ] D) 45,500
- [ ] E) 45,501


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**8** Estimate the value of 39 x 264 by rounding each number to 1 significant figure.

- ☐ A) 10,560
- ☐ B) 12,000
- ☐ C) 10,296
- ☐ D) 1,200
- ☐ E) 120,000

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**9** Round 6.74 to one decimal place.

**(1)**

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**10** Estimate the value of 72.4 x 54 by rounding each number to 1 significant figure.

- ☐ A) 3,500
- ☐ B) 350
- ☐ C) 120
- ☐ D) 35,000
- ☐ E) 3,780

---

**11** The number of visitors to a museum was 12,000 to the nearest 1000. What is the smallest whole number it could be?

- ☐ A) 11,000
- ☐ B) 11,501
- ☐ C) 11,499
- ☐ D) 11,500
- ☐ E) 12,500

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**12** Estimate the value of 371 x 74 by rounding each number to 1 significant figure.

- ☐ A) 280,000
- ☐ B) 28,000
- ☐ C) 29,600
- ☐ D) 2,800
- ☐ E) 27,454


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**13** The crowd at a match was 240 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 234
- [ ] B) 245
- [ ] C) 235
- [ ] D) 230
- [ ] E) 236

---

**14** Estimate the value of 18 x 3.3 by rounding each number to 1 significant figure.

- [ ] A) 60
- [ ] B) 600
- [ ] C) 6
- [ ] D) 66
- [ ] E) 59.4

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**15** The number of visitors to a museum was 7,700 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 7,649
- [ ] B) 7,748
- [ ] C) 7,749
- [ ] D) 7,750
- [ ] E) 7,751

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**16** Estimate the value of 508 x 52 by rounding each number to 1 significant figure.

- [ ] A) 2,500
- [ ] B) 250,000
- [ ] C) 26,416
- [ ] D) 25,000
- [ ] E) 550


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**17** Estimate the value of 5,650 ÷ 25 by rounding each number to 1 significant figure.

- [ ] A) 5,970
- [ ] B) 200
- [ ] C) 2,000
- [ ] D) 20
- [ ] E) 226

---

**18** A town's population was 61,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 60,000
- [ ] B) 60,499
- [ ] C) 61,500
- [ ] D) 60,501
- [ ] E) 60,500

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**19** Estimate the value of 266 x 5.9 by rounding each number to 1 significant figure.

- [ ] A) 180
- [ ] B) 18,000
- [ ] C) 1,800
- [ ] D) 306
- [ ] E) 1,569.4

---

**20** Estimate the value of 7,416 ÷ 72 by rounding each number to 1 significant figure.

- [ ] A) 100
- [ ] B) 1,000
- [ ] C) 103
- [ ] D) 6,930
- [ ] E) 10


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**21** The crowd at a match was 40,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 39,499
- [ ] B) 39,500
- [ ] C) 40,500
- [ ] D) 39,501
- [ ] E) 39,000

---

**22** Estimate the value of 43.1 x 6.8 by rounding each number to 1 significant figure.

- [ ] A) 272
- [ ] B) 280
- [ ] C) 47
- [ ] D) 2,800
- [ ] E) 28

---

**23** Estimate the value of 820 x 23 by rounding each number to 1 significant figure.

- [ ] A) 18,400
- [ ] B) 160,000
- [ ] C) 1,600
- [ ] D) 820
- [ ] E) 16,000

---

**24** The number of visitors to a museum was 4,300 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 4,348
- [ ] B) 4,400
- [ ] C) 4,349
- [ ] D) 4,249
- [ ] E) 4,350


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**25** Estimate the value of 20.3 x 93 by rounding each number to 1 significant figure.

- [ ] A) 1,800
- [ ] B) 180
- [ ] C) 18,000
- [ ] D) 1,887.9
- [ ] E) 1,860

---

**26** A town's population was 98,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 98,500
- [ ] B) 97,500
- [ ] C) 97,000
- [ ] D) 97,499
- [ ] E) 97,501

---

**27** Estimate the value of 15.5 x 385 by rounding each number to 1 significant figure.

- [ ] A) 800
- [ ] B) 5,967.5
- [ ] C) 8,000
- [ ] D) 80,000
- [ ] E) 7,700

---

**28** The number of visitors to a museum was 160 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 165
- [ ] B) 166
- [ ] C) 163
- [ ] D) 164
- [ ] E) 154


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**29** Estimate the value of 170 x 6.3 by rounding each number to 1 significant figure.

- ☐ A) 120
- ☐ B) 206
- ☐ C) 1,260
- ☐ D) 12,000
- ☐ E) 1,200

---

**30** Estimate the value of 76.1 x 78 by rounding each number to 1 significant figure.

- ☐ A) 640
- ☐ B) 64,000
- ☐ C) 6,400
- ☐ D) 5,935.8
- ☐ E) 160

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**31** A pupil writes 149 ÷ 6 = 24.5. Use estimation (rounding 149 to a nearby sensible number) to decide whether 24.5 is reasonable.

**(2)**


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# Mark scheme · 2.77 Rounding and Estimating to Check an Answer: 30-minute Pack

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

### Question 1

correct option A (26,500) cao **B1**

**Answer: A) 26,500**

### Question 2

correct option E (360) cao **B1**

**Answer: E) 360**

### Question 3

correct option D (3,449) cao **B1**

**Answer: D) 3,449**

### Question 4

correct option B (675) cao **B1**

**Answer: B) 675**

### Question 5

correct option E (200) cao **B1**

**Answer: E) 200**

### Question 6

correct option A (9,850) cao **B1**

**Answer: A) 9,850**

### Question 7

correct option D (45,500) cao **B1**

**Answer: D) 45,500**

### Question 8

correct option B (12,000) cao **B1**

**Answer: B) 12,000**

### Question 9

6.7 cao **B1**

**Answer: 6.7**

### Question 10

correct option A (3,500) cao **B1**

**Answer: A) 3,500**

### Question 11

correct option D (11,500) cao **B1**

**Answer: D) 11,500**

### Question 12

correct option B (28,000) cao **B1**

**Answer: B) 28,000**

### Question 13

correct option C (235) cao **B1**

**Answer: C) 235**

### Question 14

correct option A (60) cao **B1**

**Answer: A) 60**

### Question 15

correct option C (7,749) cao **B1**

**Answer: C) 7,749**

### Question 16

correct option D (25,000) cao **B1**

**Answer: D) 25,000**

### Question 17

correct option B (200) cao **B1**

**Answer: B) 200**

### Question 18

correct option E (60,500) cao **B1**

**Answer: E) 60,500**

### Question 19

correct option C (1,800) cao **B1**

**Answer: C) 1,800**

### Question 20

correct option A (100) cao **B1**

**Answer: A) 100**

### Question 21

correct option B (39,500) cao **B1**

**Answer: B) 39,500**

### Question 22

correct option B (280) cao **B1**

**Answer: B) 280**

### Question 23

correct option E (16,000) cao **B1**

**Answer: E) 16,000**

### Question 24

correct option C (4,349) cao **B1**

**Answer: C) 4,349**

### Question 25

correct option A (1,800) cao **B1**

**Answer: A) 1,800**

### Question 26

correct option B (97,500) cao **B1**

**Answer: B) 97,500**


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## Question 27

correct option C (8,000) cao **B1**

**Answer: C) 8,000**

## Question 28

correct option D (164) cao **B1**

**Answer: D) 164**

## Question 29

correct option E (1,200) cao **B1**

**Answer: E) 1,200**

## Question 30

correct option C (6,400) cao **B1**

**Answer: C) 6,400**

## Question 31

round 149 to 150 or 150/6 seen **M1**

150 ÷ 6 = 25 and statement that 24.5 is close to 25 so reasonable **A1**

**Answer: Estimate 150 ÷ 6 = 25 so 24.5 is a reasonable answer.**


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