2.77 Rounding and Estimating to Check an Answer: 1-hour Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A town's population was 320 to the nearest 10. What is the largest whole number it could be?

- ☐ A) 314
- ☐ B) 330
- ☐ C) 323
- ☐ D) 324
- ☐ E) 325

---

2 Estimate the value of 27 x 9.2 by rounding each number to 1 significant figure.

- ☐ A) 270
- ☐ B) 2,700
- ☐ C) 248.4
- ☐ D) 39
- ☐ E) 27

---

3 Estimate the value of 50.7 x 37 by rounding each number to 1 significant figure.

- ☐ A) 200
- ☐ B) 20,000
- ☐ C) 1,850
- ☐ D) 90
- ☐ E) 2,000

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

- [ ] A) 25,501
- [ ] B) 25,000
- [ ] C) 25,499
- [ ] D) 25,500
- [ ] E) 26,500

---

5 Estimate the value of 161 x 179 by rounding each number to 1 significant figure.

- [ ] A) 35,800
- [ ] B) 400,000
- [ ] C) 40,000
- [ ] D) 4,000
- [ ] E) 28,819

---

6 Estimate the value of 95.8 x 18 by rounding each number to 1 significant figure.

- [ ] A) 120
- [ ] B) 2,000
- [ ] C) 200
- [ ] D) 20,000
- [ ] E) 1,800

---

7 The crowd at a match was 70 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 74
- [ ] B) 64
- [ ] C) 76
- [ ] D) 80
- [ ] E) 75

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8 Estimate the value of 264 x 8.8 by rounding each number to 1 significant figure.

- [ ] A) 270
- [ ] B) 27,000
- [ ] C) 309
- [ ] D) 2,700
- [ ] E) 2,640

---

9 The number of visitors to a museum was 24,000 to the nearest 1000. What is the largest whole number it could be?

- [ ] A) 23,499
- [ ] B) 24,499
- [ ] C) 24,501
- [ ] D) 24,500
- [ ] E) 25,000

---

10 Estimate the value of 586 x 8.5 by rounding each number to 1 significant figure.

- [ ] A) 4,981
- [ ] B) 540
- [ ] C) 5,400
- [ ] D) 609
- [ ] E) 54,000

---

11 A town's population was 930 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 925
- [ ] B) 924
- [ ] C) 920
- [ ] D) 926
- [ ] E) 935

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12 Estimate the value of 85.1 x 4.6 by rounding each number to 1 significant figure.

- [ ] A) 4,500
- [ ] B) 95
- [ ] C) 414
- [ ] D) 45
- [ ] E) 450

---

13 Estimate the value of 8,463 ÷ 13 by rounding each number to 1 significant figure.

- [ ] A) 7,990
- [ ] B) 651
- [ ] C) 80
- [ ] D) 800
- [ ] E) 8,000

---

14 The crowd at a match was 3,200 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 3,250
- [ ] B) 3,149
- [ ] C) 3,150
- [ ] D) 3,100
- [ ] E) 3,151

---

15 Estimate the value of 49 x 6.5 by rounding each number to 1 significant figure.

- [ ] A) 35
- [ ] B) 57
- [ ] C) 3,500
- [ ] D) 318.5
- [ ] E) 350

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16 Estimate the value of 22.9 x 341 by rounding each number to 1 significant figure.

- [ ] A) 60,000
- [ ] B) 6,000
- [ ] C) 6,820
- [ ] D) 600
- [ ] E) 320

---

17 A town's population was 990 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 984
- [ ] B) 995
- [ ] C) 985
- [ ] D) 980
- [ ] E) 986

---

18 Estimate the value of 434 x 8.5 by rounding each number to 1 significant figure.

- [ ] A) 3,600
- [ ] B) 36,000
- [ ] C) 3,689
- [ ] D) 409
- [ ] E) 360

---

19 Estimate the value of 25 x 35 by rounding each number to 1 significant figure.

- [ ] A) 12,000
- [ ] B) 875
- [ ] C) 70
- [ ] D) 1,200
- [ ] E) 120

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20 The crowd at a match was 93,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 92,501
- [ ] B) 92,500
- [ ] C) 93,500
- [ ] D) 92,499
- [ ] E) 92,000

---

21 Estimate the value of 457 x 32 by rounding each number to 1 significant figure.

- [ ] A) 150,000
- [ ] B) 16,000
- [ ] C) 15,000
- [ ] D) 1,500
- [ ] E) 530

---

22 The crowd at a match was 380 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 390
- [ ] B) 374
- [ ] C) 384
- [ ] D) 386
- [ ] E) 385

---

23 Estimate the value of 13.6 x 71 by rounding each number to 1 significant figure.

- [ ] A) 965.6
- [ ] B) 7,000
- [ ] C) 70
- [ ] D) 710
- [ ] E) 700

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24 The number of visitors to a museum was 67,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 67,500
- [ ] B) 66,501
- [ ] C) 66,499
- [ ] D) 66,500
- [ ] E) 66,000

---

25 Estimate the value of 819 x 120 by rounding each number to 1 significant figure.

- [ ] A) 80,000
- [ ] B) 800,000
- [ ] C) 900
- [ ] D) 8,000
- [ ] E) 98,280

---

26 Estimate the value of 52 x 49 by rounding each number to 1 significant figure.

- [ ] A) 2,450
- [ ] B) 100
- [ ] C) 25,000
- [ ] D) 2,500
- [ ] E) 250

---

27 The number of visitors to a museum was 41,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 40,500
- [ ] B) 40,000
- [ ] C) 41,500
- [ ] D) 40,501
- [ ] E) 40,499

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28 Estimate the value of 8,650 ÷ 15 by rounding each number to 1 significant figure.

- [ ] A) 8,980
- [ ] B) 450
- [ ] C) 4,500
- [ ] D) 45
- [ ] E) 600

---

29 Estimate the value of 156 x 148 by rounding each number to 1 significant figure.

- [ ] A) 300
- [ ] B) 23,088
- [ ] C) 2,000
- [ ] D) 200,000
- [ ] E) 20,000

---

30 The number of visitors to a museum was 9,800 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 9,848
- [ ] B) 9,850
- [ ] C) 9,849
- [ ] D) 9,749
- [ ] E) 9,900

---

31 Estimate the value of 792 x 3.5 by rounding each number to 1 significant figure.

- [ ] A) 2,772
- [ ] B) 3,200
- [ ] C) 320
- [ ] D) 32,000
- [ ] E) 2,800

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32 Estimate the value of 55.7 x 7.2 by rounding each number to 1 significant figure.

- [ ] A) 420
- [ ] B) 401.04
- [ ] C) 4,200
- [ ] D) 432
- [ ] E) 42

---

33 The number of visitors to a museum was 1,400 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 1,350
- [ ] B) 1,450
- [ ] C) 1,349
- [ ] D) 1,351
- [ ] E) 1,300

---

34 Estimate the value of 88 x 37 by rounding each number to 1 significant figure.

- [ ] A) 360
- [ ] B) 3,600
- [ ] C) 3,330
- [ ] D) 36,000
- [ ] E) 3,256

---

35 The number of visitors to a museum was 450 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 456
- [ ] B) 444
- [ ] C) 454
- [ ] D) 455
- [ ] E) 453

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36 Estimate the value of 97 x 13 by rounding each number to 1 significant figure.

- [ ] A) 10,000
- [ ] B) 100
- [ ] C) 1,261
- [ ] D) 1,000
- [ ] E) 1,300

---

37 Round 2.15 to one decimal place.

(1)

---

38 A town's population was 6,700 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 6,649
- [ ] B) 6,800
- [ ] C) 6,748
- [ ] D) 6,750
- [ ] E) 6,749

---

39 The crowd at a match was 8,600 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 8,550
- [ ] B) 8,650
- [ ] C) 8,500
- [ ] D) 8,549
- [ ] E) 8,551

---

40 Estimate the value of 924 x 95 by rounding each number to 1 significant figure.

- [ ] A) 9,000
- [ ] B) 900,000
- [ ] C) 1,000
- [ ] D) 90,000
- [ ] E) 85,500

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41 A town's population was 79,000 to the nearest 1000. What is the largest whole number it could be?

- [ ] A) 79,498
- [ ] B) 78,499
- [ ] C) 79,501
- [ ] D) 79,500
- [ ] E) 79,499

---

42 A town's population was 420 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 410
- [ ] B) 416
- [ ] C) 415
- [ ] D) 425
- [ ] E) 414

---

43 Estimate the value of 83 x 13 by rounding each number to 1 significant figure.

- [ ] A) 90
- [ ] B) 8,000
- [ ] C) 1,079
- [ ] D) 80
- [ ] E) 800

---

44 The crowd at a match was 60,000 to the nearest 1000. What is the largest whole number it could be?

- [ ] A) 60,501
- [ ] B) 59,499
- [ ] C) 61,000
- [ ] D) 60,499
- [ ] E) 60,500

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45 Round 3,476 to the nearest 100.

- [ ] A) 3,480
- [ ] B) 3,400
- [ ] C) 3,000
- [ ] D) 3,476
- [ ] E) 3,500

---

46 A town's population was 220 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 230
- [ ] B) 224
- [ ] C) 223
- [ ] D) 214
- [ ] E) 225

---

47 Estimate the value of 256 x 3.9 by rounding each number to 1 significant figure.

- [ ] A) 304
- [ ] B) 998.4
- [ ] C) 1,200
- [ ] D) 120
- [ ] E) 12,000

---

48 A town's population was 7,600 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 7,500
- [ ] B) 7,650
- [ ] C) 7,551
- [ ] D) 7,550
- [ ] E) 7,549

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49 Estimate the value of 331 x 4.7 by rounding each number to 1 significant figure.

- [ ] A) 1,500
- [ ] B) 150
- [ ] C) 1,555.7
- [ ] D) 1,410
- [ ] E) 15,000

---

50 The number of visitors to a museum was 900 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 905
- [ ] B) 890
- [ ] C) 894
- [ ] D) 896
- [ ] E) 895

---

51 Estimate the value of 8,570 ÷ 2.5 by rounding each number to 1 significant figure.

- [ ] A) 3,600
- [ ] B) 3,000
- [ ] C) 3,428
- [ ] D) 300
- [ ] E) 30,000

---

52 Estimate the value of 74.2 x 478 by rounding each number to 1 significant figure.

- [ ] A) 35,467.6
- [ ] B) 3,500
- [ ] C) 350,000
- [ ] D) 570
- [ ] E) 35,000

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53 The number of visitors to a museum was 60,000 to the nearest 1000. What is the smallest whole number it could be?

- [ ] A) 59,501
- [ ] B) 59,000
- [ ] C) 59,500
- [ ] D) 60,500
- [ ] E) 59,499

---

54 Estimate the value of 37.9 x 4.3 by rounding each number to 1 significant figure.

- [ ] A) 162.97
- [ ] B) 160
- [ ] C) 16
- [ ] D) 44
- [ ] E) 1,600

---

55 The crowd at a match was 500 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 549
- [ ] B) 550
- [ ] C) 600
- [ ] D) 548
- [ ] E) 449

---

56 Estimate the value of 48.4 x 157 by rounding each number to 1 significant figure.

- [ ] A) 10,000
- [ ] B) 100,000
- [ ] C) 1,000
- [ ] D) 250
- [ ] E) 7,850

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57 The number of visitors to a museum was 110 to the nearest 10. What is the largest whole number it could be?

- [ ] A) 115
- [ ] B) 120
- [ ] C) 116
- [ ] D) 114
- [ ] E) 104

---

58 The crowd at a match was 7,400 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 7,500
- [ ] B) 7,449
- [ ] C) 7,349
- [ ] D) 7,451
- [ ] E) 7,450

---

59 Estimate the value of 46 x 8.9 by rounding each number to 1 significant figure.

- [ ] A) 4,500
- [ ] B) 45
- [ ] C) 450
- [ ] D) 409.4
- [ ] E) 59

---

60 A town's population was 40 to the nearest 10. What is the smallest whole number it could be?

- [ ] A) 36
- [ ] B) 34
- [ ] C) 30
- [ ] D) 35
- [ ] E) 45

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61 Estimate the value of 588 x 6.1 by rounding each number to 1 significant figure.

- ☐ A) 3,586.8
- ☐ B) 36,000
- ☐ C) 360
- ☐ D) 3,660
- ☐ E) 3,600

---

62 The crowd at a match was 53,000 to the nearest 1000. What is the smallest whole number it could be?

- ☐ A) 53,500
- ☐ B) 52,000
- ☐ C) 52,500
- ☐ D) 52,501
- ☐ E) 52,499

---

63 A calculator shows 18.9 × 4.2 = 79.38. By rounding 18.9 and 4.2 to sensible values estimate the product and say if 79.38 is plausible.

(2)

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Mark scheme · 2.77 Rounding and Estimating to Check an Answer: 1-hour Pack

Question 1

correct option D (324) cao **B1**

Answer: D) 324

Question 2

correct option A (270) cao **B1**

Answer: A) 270

Question 3

correct option E (2,000) cao **B1**

Answer: E) 2,000

Question 4

correct option D (25,500) cao **B1**

Answer: D) 25,500

Question 5

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

Answer: C) 40,000

Question 6

correct option B (2,000) cao **B1**

Answer: B) 2,000

Question 7

correct option A (74) cao **B1**

Answer: A) 74

Question 8

correct option D (2,700) cao **B1**

Answer: D) 2,700

Question 9

correct option B (24,499) cao **B1**

Answer: B) 24,499

Question 10

correct option C (5,400) cao **B1**

Answer: C) 5,400

Question 11

correct option A (925) cao **B1**

Answer: A) 925

Question 12

correct option E (450) cao **B1**

Answer: E) 450

Question 13

correct option D (800) cao **B1**

Answer: D) 800

Question 14

correct option C (3,150) cao **B1**

Answer: C) 3,150

Question 15

correct option E (350) cao **B1**

Answer: E) 350

Question 16

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

Answer: B) 6,000

Question 17

correct option C (985) cao **B1**

Answer: C) 985

Question 18

correct option A (3,600) cao **B1**

Answer: A) 3,600

Question 19

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

Answer: D) 1,200

Question 20

correct option B (92,500) cao **B1**

Answer: B) 92,500

Question 21

correct option C (15,000) cao **B1**

Answer: C) 15,000

Question 22

correct option C (384) cao **B1**

Answer: C) 384

Question 23

correct option E (700) cao **B1**

Answer: E) 700

Question 24

correct option D (66,500) cao **B1**

Answer: D) 66,500

Question 25

correct option A (80,000) cao **B1**

Answer: A) 80,000

Question 26

correct option D (2,500) cao **B1**

Answer: D) 2,500

Question 27

correct option A (40,500) cao **B1**

Answer: A) 40,500

Question 28

correct option B (450) cao **B1**

Answer: B) 450

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Question 29

correct option E (20,000) cao **B1**

Answer: E) 20,000

Question 30

correct option C (9,849) cao **B1**

Answer: C) 9,849

Question 31

correct option B (3,200) cao **B1**

Answer: B) 3,200

Question 32

correct option A (420) cao **B1**

Answer: A) 420

Question 33

correct option A (1,350) cao **B1**

Answer: A) 1,350

Question 34

correct option B (3,600) cao **B1**

Answer: B) 3,600

Question 35

correct option C (454) cao **B1**

Answer: C) 454

Question 36

correct option D (1,000) cao **B1**

Answer: D) 1,000

Question 37

2.2 cao **B1**

Answer: 2.2

Question 38

correct option E (6,749) cao **B1**

Answer: E) 6,749

Question 39

correct option A (8,550) cao **B1**

Answer: A) 8,550

Question 40

correct option D (90,000) cao **B1**

Answer: D) 90,000

Question 41

correct option E (79,499) cao **B1**

Answer: E) 79,499

Question 42

correct option C (415) cao **B1**

Answer: C) 415

Question 43

correct option E (800) cao **B1**

Answer: E) 800

Question 44

correct option D (60,499) cao **B1**

Answer: D) 60,499

Question 45

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

Answer: E) 3,500

Question 46

correct option B (224) cao **B1**

Answer: B) 224

Question 47

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

Answer: C) 1,200

Question 48

correct option D (7,550) cao **B1**

Answer: D) 7,550

Question 49

correct option A (1,500) cao **B1**

Answer: A) 1,500

Question 50

correct option E (895) cao **B1**

Answer: E) 895

Question 51

correct option B (3,000) cao **B1**

Answer: B) 3,000

Question 52

correct option E (35,000) cao **B1**

Answer: E) 35,000

Question 53

correct option C (59,500) cao **B1**

Answer: C) 59,500

Question 54

correct option B (160) cao **B1**

Answer: B) 160

Question 55

correct option A (549) cao **B1**

Answer: A) 549

Question 56

correct option A (10,000) cao **B1**

Answer: A) 10,000

Question 57

correct option D (114) cao **B1**

Answer: D) 114

Question 58

correct option B (7,449) cao **B1**

Answer: B) 7,449

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Question 59

correct option C (450) cao **B1**

Answer: C) 450

Question 60

correct option D (35) cao **B1**

Answer: D) 35

Question 61

correct option E (3,600) cao **B1**

Answer: E) 3,600

Question 62

correct option C (52,500) cao **B1**

Answer: C) 52,500

Question 63

rounding shown, e.g. 18.9 -> 19 and 4.2 -> 4 **M1**

estimate 19 × 4 = 76 and statement that 79.38 is slightly larger but plausible **A1**

Answer: Estimate 19 × 4 = 76 so 79.38 is plausible.

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