2.77 Rounding and Estimating to Check an Answer: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Round 0.249 to one decimal place.

(1)

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2 The number of visitors to a museum was 2,900 to the nearest 100. What is the smallest whole number it could be?

- ☐ A) 2,850
- ☐ B) 2,800
- ☐ C) 2,950
- ☐ D) 2,849
- ☐ E) 2,851

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3 Estimate the value of 17 x 29 by rounding each number to 1 significant figure.

- ☐ A) 50
- ☐ B) 580
- ☐ C) 60
- ☐ D) 6,000
- ☐ E) 600

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4 Estimate the value of 38 x 202 by rounding each number to 1 significant figure.

- ☐ A) 8,080
- ☐ B) 240
- ☐ C) 800
- ☐ D) 8,000
- ☐ E) 80,000

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5 The crowd at a match was 5,900 to the nearest 100. What is the largest whole number it could be?

- [ ] A) 6,000
- [ ] B) 5,948
- [ ] C) 5,949
- [ ] D) 5,950
- [ ] E) 5,849

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6 Estimate the value of 791 x 87 by rounding each number to 1 significant figure.

- [ ] A) 69,600
- [ ] B) 720,000
- [ ] C) 890
- [ ] D) 7,200
- [ ] E) 72,000

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7 Estimate the value of 769 x 15 by rounding each number to 1 significant figure.

- [ ] A) 11,535
- [ ] B) 1,600
- [ ] C) 160,000
- [ ] D) 16,000
- [ ] E) 12,000

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8 The number of visitors to a museum was 5,600 to the nearest 100. What is the smallest whole number it could be?

- [ ] A) 5,550
- [ ] B) 5,549
- [ ] C) 5,650
- [ ] D) 5,551
- [ ] E) 5,500

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9 Estimate the value of 624 x 127 by rounding each number to 1 significant figure.

- ☐ A) 600,000
- ☐ B) 76,200
- ☐ C) 60,000
- ☐ D) 6,000
- ☐ E) 79,248

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10 A school orders two items priced £23.78 and £9.46. Estimate the total by rounding each price to the nearest pound, and say whether the exact total £33.24 is sensible.

(2)

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Mark scheme · 2.77 Rounding and Estimating to Check an Answer: 10-minute Pack

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

Question 1

0.2 cao **B1**

Answer: 0.2

Question 2

correct option A (2,850) cao **B1**

Answer: A) 2,850

Question 3

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

Answer: E) 600

Question 4

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

Answer: D) 8,000

Question 5

correct option C (5,949) cao **B1**

Answer: C) 5,949

Question 6

correct option E (72,000) cao **B1**

Answer: E) 72,000

Question 7

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

Answer: D) 16,000

Question 8

correct option A (5,550) cao **B1**

Answer: A) 5,550

Question 9

correct option C (60,000) cao **B1**

Answer: C) 60,000

Question 10

rounding to nearest pound seen: 23.78 -> 24, 9.46 -> 9 or equivalent **M1**

estimate 24 + 9 = £33 and statement that £33.24 is sensible ft from estimate **A1**

Answer: Estimated total £33.00, so £33.24 is a sensible exact total.

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