

Bronze Answers

1a. C

2a. Horror – 10,000; Fantasy – 50,000;
Mystery – 30,000

3a. 7,000; 2,000; 6,000; 2,000

4a. 9,000; 10,000

1a. 8,693; 8,639; 8,963; 8,936; 9,386; 9,368

2a. Theresa is correct. David has rounded the 6 thousands down, but 6 rounds up.

3a. The odd one out is 1,700. The other numbers round to 17,000 when rounded to the nearest thousand.

Silver Answers

5a. C

6a. Drop in – 94,000; A & E – 69,000; X-ray – 54,000

7a. 10,000, 50,000; 20,000; 70,000

8a. 9,060; 9,100; 9,000

4a. 32,781; 32,718; 32,817; 32,871

5a. Jamie is correct. 25,984 when rounded to the nearest ten is 25,980.

6a. 54,848 is the odd one out. It would round to 54,800 when rounding to the nearest hundred. The others round to 54,900.

Gold Answers

9a. D

10a. $4 \times 4 = 2,000$ (MM); Saloon – 27,000;
City – 96,000

11a. 0; 50,000; 90,000; 10,000

12a. 3,610 (MMMDCX); 3,600 (MMMDC);
4,000 (MMMM)

7a. 82,563; 82,635; 82,567; 82,576; 82,573;
82,637

8a. Leya is correct because the number
given is 3,986, which rounds to 3,990 when
rounded to the nearest 10.

9a. 3,569 is the odd one out. The others
round to the 3,500 to the nearest hundred.

Challenge Answers

1. Millie is trying to solve this puzzle by using rounding.

Investigate the numbers Millie could use to solve the puzzle.

Various answers, for example: (See grid)



Clues:

Down

- To the nearest 10,000, this number is 80,000
- To the nearest 1,000, this number is 24,000
- To the nearest 10, this number is 68,990
- To the nearest 100, this number is 9,200
- To the nearest 100, this number is 6,600

Across

- To the nearest 10,000, this number is 30,000
- To the nearest 1,000, this number is 8,000
- To the nearest 100, this number is 55,700
- To the nearest 10,000, this number is 90,000
- To the nearest 100, this number is 5,100
- To the nearest 100, this number is 9,500



| | | | | | | | | |
|---------|----------|---|---|---------|---|---|---------|---|
| 1. 7 | | | | 2. 2 | 6 | 8 | 1 | 5 |
| 3. 7 | 5 | 1 | 3 | | | | | |
| 3 | | | | 4. 5 | 5 | 6 | 5. 6 | 3 |
| 4 | | | | 9 | | | 8 | |
| 6. 8 | 7. 9 | 3 | 4 | 8. 6 | | | 9 | |
| | 1 | | | 9. 5 | 0 | 9 | 3 | |
| | 10. 9 | 5 | 1 | 7 | | 3 | | |
| | 3 | | | 3 | | | | |

2. Bill is playing a game using rounding. The aim of the game is to make three different 5-digit numbers and place them on the grid to make three in a row. There are rules for each square on the grid.

Bill can only use these digits in his numbers:



Explore the numbers Bill could use.

Various answers, for example: (See grid)



| | | |
|--|---|---|
| <p>To the nearest 1,000 the rounded number is less than 40,000</p> <p>29,460</p> | <p>When rounded to the nearest 100, the number has exactly three zeros</p> <p>24,960</p> | <p>When rounded to the nearest 1,000 there are 2 digits greater than 5</p> <p>69,402</p> |
| <p>To the nearest 10,000 the number rounds to 80,000</p> <p>94,260</p> | <p>When rounded to the nearest 100, the total of the digits is 13</p> <p>62,490</p> | <p>When rounded to the nearest 1,000, the number has all even digits</p> <p>64,209</p> |
| <p>When rounded to the nearest 1,000, the number is between 41,000 and 45,000</p> <p>42,609</p> | <p>When rounded to the nearest 100, the number has 2 thousands</p> <p>62,409</p> | <p>After being rounded to the nearest 10, all digits in the number are less than 7</p> <p>24,609</p> |

DP