

Rounding: Highest/Lowest Values

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Examples



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Workout

Question 1: Rhys thinks of a number and rounds it to the nearest 10.
His answer is 80.

- (a) What is the smallest possible number Rhys could have thought of?
- (b) What is the greatest possible number Rhys could have thought of?

Question 2: Charlotte thinks of a number and rounds it to the nearest 10.
Her answer is 140.

- (a) What is the smallest possible number Charlotte could have thought of?
- (b) What is the greatest possible number Charlotte could have thought of?

Question 3: Melody thinks of a number and rounds it to the nearest 10.
Her answer is 800.

- (a) What is the smallest possible number Melody could have thought of?
- (b) What is the greatest possible number Melody could have thought of?

Question 4: Steffan thinks of a number and rounds it to the nearest 100.
His answer is 500.

- (a) What is the smallest possible number Steffan could have thought of?
- (b) What is the greatest possible number Steffan could have thought of?

Question 5: Fleur thinks of a number and rounds it to the nearest 100.
Her answer is 1900.

- (a) What is the smallest possible number Fleur could have thought of?
- (b) What is the greatest possible number Fleur could have thought of?

Question 6: Rhian thinks of a number and rounds it to the nearest 1000.
Her answer is 24000.

- (a) What is the smallest possible number Rhian could have thought of?
- (b) What is the greatest possible number Rhian could have thought of?

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Question 7: The sign is correct to the nearest ten.

- (a) What is the lowest possible number of people that live in Kingstone?
- (b) What is the greatest possible number of people that live in Kingstone?

Kingstone
Population 1,380

Question 8: The sign is correct to the nearest hundred.

- (a) What is the lowest possible number of people that live in Keswick?
- (b) What is the greatest possible number of people that live in Keswick?

Keswick
Population 5,300

Question 9: The sign is correct to the nearest hundred.

- (a) What is the lowest possible number of people that live in Truro?
- (b) What is the greatest possible number of people that live in Truro?

Truro
Population 19,000

Question 10: A newspaper says the number of people at a rugby match is 37,000 to the nearest 1,000.

What is the greatest possible number of people at the match?

Question 11: The population of Wales is 3.1 millions, to the nearest hundred thousand.

- (a) What is the lowest possible number of people that live in Wales?
- (b) What is the greatest possible number of people that live in Wales?

Apply

Question 1: Owen has 200 marbles to the nearest hundred.

He says that means the greatest number of marbles he could have is 250.

Explain why Owen is incorrect.



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Question 2: A packet of sweets contains 30 sweets to the nearest 10.
Miss Simpson gives each of the 20 students in her class a packet of sweets.

What is the lowest possible total number of sweets that Miss Simpson could have given out?

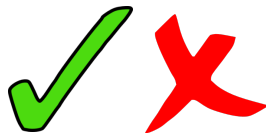
Question 3: Tomas organises a concert to raise money for charity.
Entry to the concert is £5.00
The number of people attending the concert is 700 to the nearest hundred.

What is the greatest possible amount of money he raised for charity?

Question 4: Evelyn has 8 bags of 20p coins.
Each bag contains 50 coins to the nearest 10.

Work out the difference between the greatest and smallest possible amount of money that Evelyn has.

Answers



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