

LO: To round numbers accurately (bronze)

Practise

Round these numbers to the nearest 10

- 1) 954
- 2) 1,235
- 3) 128,928

Round these to the nearest 100

- 4) 1,239
- 5) 283,782
- 6) 3,456,286

Round these to the nearest 1,000

- 7) 283,782
- 8) 3,456,286
- 9) 2,747,923

Round these to the nearest 10,000

- 10) 3,456,286
- 11) 2,747,923
- 12) 345,349

Fluency

13) In July 2015, the population of the U.K was estimated to be 64,881,609.
What is this rounded to the nearest 10,000? To the nearest 100,000? To the nearest million?

14) Circle all the numbers that round to 38,000 to the nearest 1,000

38,350	38,499	37,500	38,500
37,690	37,099	37,999	38,098

15) Write the missing digits so that each number rounds to three hundred and twenty thousand when rounded to the nearest ten thousand.

32__,657	3__5,001	31__,999
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Reasoning

16) A number rounded to the nearest 1000 is 54000. What is the largest possible number this could be?

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Round these to the nearest 100

- 1) 1,239
- 2) 3,456,286

Round these to the nearest 1,000

- 3) 3,456,286
- 4) 345,349

Round these to the nearest 10,000

- 5) 2,747,923
- 6) 345,349

Fluency

- 7) Write the missing digits so that each number rounds to three hundred and twenty thousand when rounded to the nearest ten thousand.

32__,657

3_5,001

31__,999

- 8) In 2013, there were 778,803 births in the UK. What is this to the nearest 100? Nearest 1000? Nearest 10000? Nearest 100000?
- 9) In July 2015, the population of the U.K was estimated to be 64,881,609. What is this rounded to the nearest 10,000? To the nearest 100,000? To the nearest million?

Reasoning

- 10) A number rounded to the nearest 1000 is 54000. What is the largest possible number this could be?

- 11) Three children have rounded 471,958 to the nearest 100,000

		
Eva	Jack	Rosie
500,000	400,000	472,000

Who is correct?

_____ is correct.

Explain the mistake the other children have made.

Problem solving

- 12) Nathan thinks of a number. Rounded to the nearest 10 it equals 1150. Rounded to the nearest 100 it equals 1200. Rounded to the nearest 1000 it equals 1000. What could Nathan's number be?

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Round these to the nearest 100

1) 283,782

2) 3,456,286

Round these to the nearest 1,000

3) 3,456,286

4) 2,747,923

Round these to the nearest 10,000

5) 3,456,286

6) 2,747,923

Fluency

7) In July 2015, the population of the U.K was estimated to be 64,881,609. What is this rounded to the nearest 10,000? To the nearest 100,000? To the nearest million?

Reasoning

8) Round the number 259996 to the nearest 1000. Round it to the nearest 10000. What do you notice about your answers? Can you think of three more numbers where the same thing would happen?

9) True or false? All numbers with a five in the tens column will round up when rounded to the nearest 100 and 1000.

Problem solving

10) Two numbers when added together make 100 but when rounded one number rounds to 0 and the other rounds to 100. How many different combinations of numbers can you find?

11) Nathan thinks of a number. Rounded to the nearest 10 it equals 1150. Rounded to the nearest 100 it equals 1200. Rounded to the nearest 1000 it equals 1000. What could Nathan's number be?

12) A and B are integers.

A = 300,000 to the nearest 100,000

B = 300,000 to the nearest 10,000

a) What is the greatest possible value of $A + B$?

b) What is the smallest possible value of $A + B$?

c) What is the greatest possible value of $A - B$?

LO: To round numbers accurately (bronze) - answers

Practise

Round these numbers to the nearest 10

- 1) 950
- 2) 1,240
- 3) 128,930

Round these to the nearest 100

- 4) 1,200
- 5) 283,800
- 6) 3,456,300

Round these to the nearest 1,000

- 7) 284,000
- 8) 3,456,000
- 9) 2,748,000

Round these to the nearest 10,000

- 10) 3,460,000
- 11) 2,750,000
- 12) 350,000

Fluency

13) 64,880,000 - 64,900,000 - 65,000,000

14) Circle all the numbers that round to 38,000 to the nearest 1,000

38,350	38,499	37,500	38,500
37,690	37,099	37,999	38,098

15) Write the missing digits so that each number rounds to three hundred and twenty thousand when rounded to the nearest ten thousand.

32__,657 3__5,001 31__,999

0-4

1

5-9

Reasoning

16) 54,499

LO: To round numbers accurately (silver) - answers

Practise

Round these to the nearest 100

- 1) 1,200
- 2) 3,456,300

Round these to the nearest 1,000

- 3) 3,456,000
- 4) 345,000

Round these to the nearest 10,000

- 5) 2,750,000
- 6) 350,000

Fluency

- 7) Write the missing digits so that each number rounds to three hundred and twenty thousand when rounded to the nearest ten thousand.

32__,657

3_5,001

31__,999

1-4

1

5-9

- 8) 778,800 - 779,000 - 780,000 - 800,000

- 9) 64,880,000 - 64,900,000 - 65,000,000

Reasoning

- 10) 54,449

- 11) Three children have rounded 471,958 to the nearest 100,000



Eva

500,000



Jack

400,000



Rosie

472,000

Eva, because...

Who is correct?

_____ is correct.

Explain the mistake the other children have made.

Problem solving

- 12) Answers will vary e.g. 1151

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Practise

Round these to the nearest 100

- 1) 283,800
- 2) 3,456,300

Round these to the nearest 1,000

- 3) 3,456,000
- 4) 2,748,000

Round these to the nearest 10,000

- 5) 3,460,000
- 6) 2,750,000

Fluency

- 7) 64,880,000 - 64,900,000 - 65,000,000

Reasoning

- 8) 260,000 - 260,000 both the same.
Answers will vary
- 9) False, it will round up to the nearest 100 but not always to the nearest 1000 (that depends on the hundred column)

Problem solving

10) Answers will vary e.g. $49 + 51$, $48 + 52$...

11) Answers will vary e.g. 1151

12) A and B are integers.

A = 300,000 to the nearest 100,000

B = 300,000 to the nearest 10,000

- a) What is the greatest possible value of A + B? $349,999 + 304,999 = 654,998$
- b) What is the smallest possible value of A + B? $250,000 + 295,000 = 545,000$
- c) What is the greatest possible value of A - B? $349,999 - 295,000 = 254,999$