

Maths Mastery

Rounding to the Powers of 10



Rounding to 10

seventeen



twenty



Work with a partner.

Write a number (up to 6 digits) on a small whiteboard (hidden).

Say the number to your partner who must round it to the nearest 10. If they get the answer correct, then it is their turn to write a number.

If your partner guesses an incorrect answer, then you will get a point.

Play to 10 points and then swap partners.

If your partner is finding it difficult, perhaps show them the numbers for a few seconds.

Rounding to 100

For each of these numbers, write five numbers that can be rounded to the number when rounded to the nearest 100.

300

1500

32 900

782 000

Between 250
and 349

Between 1450
and 1549

Between
32 850 and
32 949

Between
781 950 and
782 049

Explain the range of answers for 10 000.

Any number between 9 950 and 10 049

Hide
Answers

Rounding to 1000

Write down the numbers which, when rounded to the nearest thousand, are rounded to 34 000:

33 672

34 829

30 999

34 002

33 903

32 919

34 500

33 499

33 501

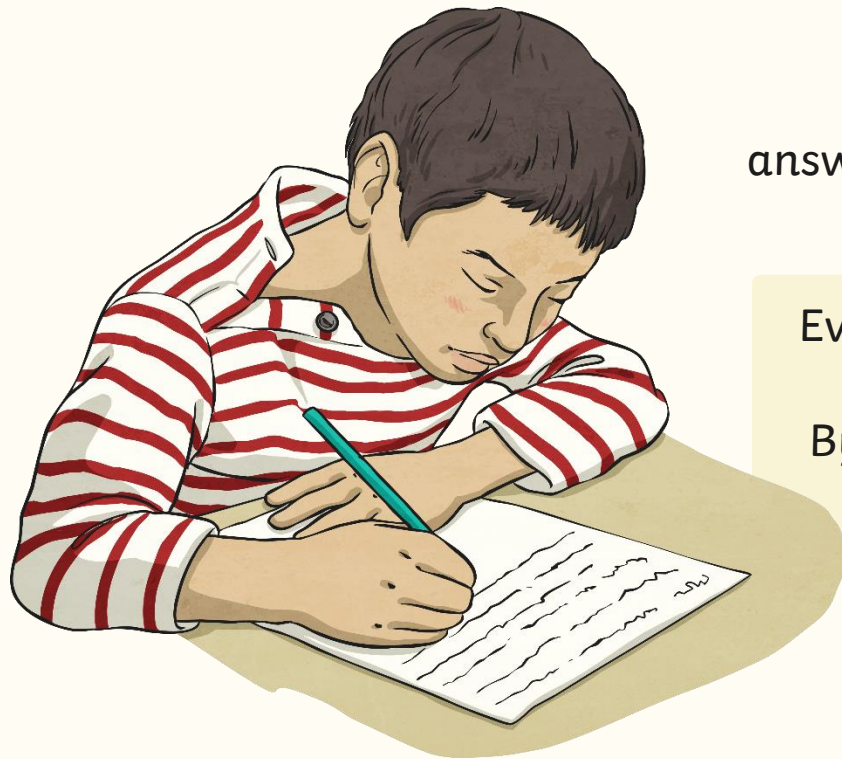
34 201

Create your own set of numbers for a partner.

Hide
Answers

Rounding to 10 000

Write an explanation, with examples, of how to round any number to the nearest ten thousand.



Share your explanation with a partner. Can you improve your answer with any ideas from your partner?

Every number is between two 10 000's.
We round to the nearest 10 000.
By convention the half way point goes up, so 6 500 rounds to 7 000.

Hide
Answers

Rounding to 100 000

Write two 6-digit numbers.

Add the numbers together and round the answer to the nearest 100 000.

Now round the original numbers and add them together.

Do you get the same answer?

Try it again with different numbers.

What do you find?

Roughly half the answers will be the same; the rest will differ by 100 000. This is where both numbers are rounded up or both down by more than 50 000.

e.g. $225\ 000 + 325\ 000 = 550\ 000$ rounds to **600 000**

$200\ 000 + 300\ 000 =$ **500 000**

Hide
Answers

