Rounding to the nearest ten or hundred

National Curriculum attainment target

• Round any number to the nearest 10 or 100

Lesson objective

• Round any number to the nearest 10 or 100

Previous related lesson

Prerequisites for learning

Pupils need to:

• have a good understanding of three- and four-digit numbers

Vocabulary

round, multiple of ten, multiple of hundred

Future related lesson

Unit 9. Week 1. Lesson 2

Success criteria

Pupils can:

- read the number
- focus on the tens or ones digit
- decide whether to round up or down



Collins

Year 4, Unit 5, Week 1

Getting Started

- Choose an activity from Number Number and place value.
- Choose an activity from Fluency in Number Facts: Y3/Y4 Number and place value.

Teach

Resources

numbers?

mini whiteboard, pen and eraser (per child)



- Ask: What happens when numbers are rounded? What does this mean? Discuss children's answers. Establish that "rounding" means changing a number to a multiple of ten or hundred or thousand. These numbers all end in zeros which are round. This is a good way to remember what
- Say: When we round numbers there are mathematical rules to follow. First, we are going to round to the nearest tens number.
- Draw a number line from 760 to 770 and mark 10 intervals. Label 762 in the appropriate place. Ask: What two tens numbers is 762 between? Establish that is between 760 and 770. Show the number line on the board.
- Ask: Is 762 nearer to 760 or 770? Establish that it is nearer to 760.
- Say: 762 would be rounded down to 760 as this is the ten it is nearest to. 762 rounded to the nearest ten is 760. • Say: Tell me another number that would be rounded down to 760. Share children's ideas and



- underline all the numbers that would be rounded down. · Ask: What do you think we should do about 765, as it is halfway between the two tens
- Share children's ideas and see if they know the rule. Say: The mathematical rule is that when rounding to the nearest ten, if a number ends in five, it is always rounded up. So 765 rounded to the nearest ten is 770.

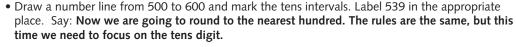


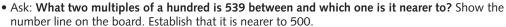
- Ask: What other numbers would be rounded up to 770? Put a star under all the numbers that would be rounded up to 770.
- Ask: So when rounding numbers to the nearest ten, what digit do we need to focus on? Establish that it is the ones digit that shows whether a number is rounded up or down.
- · Ask: Which ones digits are rounded down? Which ones digits are rounded up? Expect wholeclass responses.
- Write 571,827, 1346 and 3084 on the board. Write the ones digits in a different colour. Say: Round these numbers to the nearest ten.

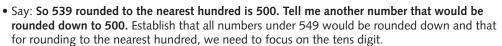




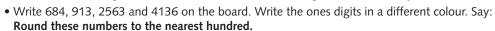








- Say: The mathematical rule when rounding to the nearest hundred is: 50 and all numbers above it are rounded up. Tell me a number that would be rounded up to 600.
- Ask: Which tens digits are rounded down? Which tens digits are rounded up?





Individualised Learning

Refer to Activity 3 from the Learning Activities on page 205.

Pupil Book 4B: - Page 6: Rounding to the nearest 10 or 100Progress Guide 4: - Support, Year 4, Unit 5, Week 1, Lesson 3: Rounding



Plenary

• Ask: When might we need to round numbers in maths? Discuss children's ideas. Establish that we often round numbers when we need to estimate an answer. Also, there are some mental methods that use rounding and adjusting.



- Ask: When might we round numbers in real life? Discuss children's ideas and have some of your own to share.
- Say: I am going to say a number and I want you to round the number to the nearest ten and reply.
 Expect a whole-class response.
- Repeat with rounding numbers to the nearest hundred.



Homework Guide 4

Year 4, Unit 5, Week 1, Lesson 3: Round up or round down

Overcoming Barriers

• Children will find rounding challenging if they are not very secure with three- and four-digit numbers. They need to be able to readily identify the multiples of ten and hundred on either side of a given number. If they are unable to do this, go back to two-digit numbers and use a number line to support the rounding. Make the link between the pattern of numbers clear, for example, 56 rounds up to 60, 356 rounds up to 360.