

Diving into Mastery

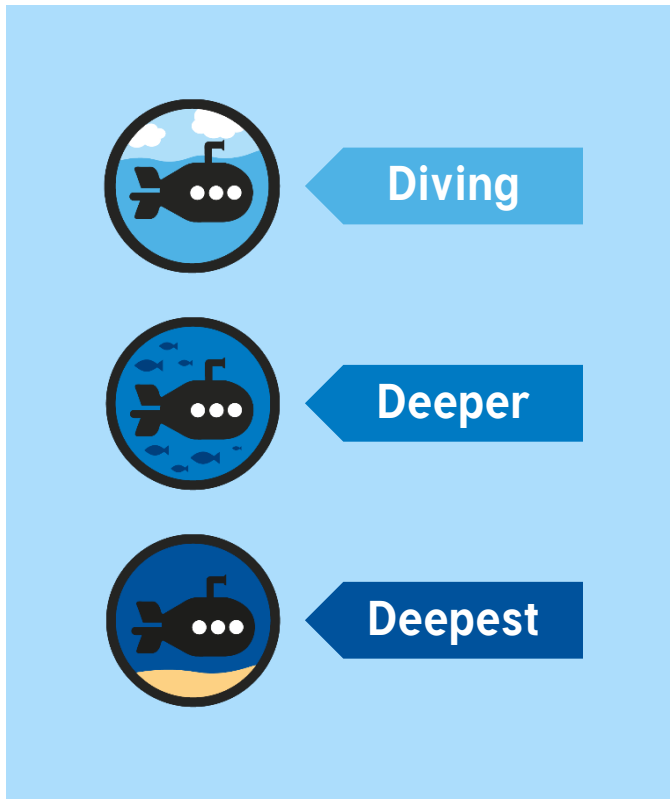


Rounding Decimals

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Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

- Round decimals with two decimal places to the nearest whole number and to one decimal place.





a) $7.8 \rightarrow 8$



b) $3.43 \rightarrow 3$



A spiral-bound notebook with a white cover and silver rings, lying on a wooden surface. A green pen with a white stripe is lying diagonally across the bottom left of the notebook.

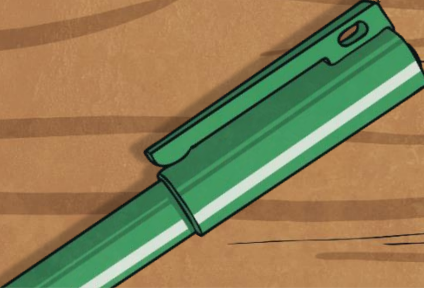
Round the numbers to the nearest whole number. Use the number lines to help you.



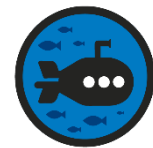
a) $9.22 \rightarrow 9.2$



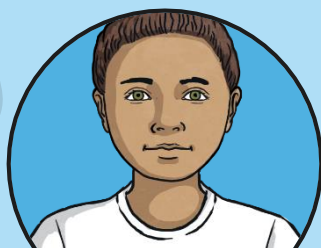
b) $6.87 \rightarrow 6.9$



Round the numbers to the nearest tenth. Use the number lines to help you.



Petra is thinking of a number with tenths and hundredths. When it is rounded to the nearest whole number, the number is 15. Rounded to the nearest tenth it is 14.6.



Petra

14.62 15.12

14.51 14.59

14.66

Which of these could be Petra's number?

Can you think of a different number which could be Petra's number?

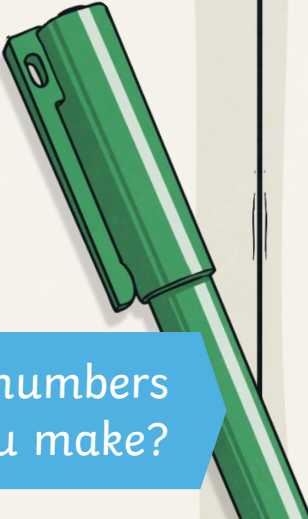
14.60 14.61 14.63 14.64
14.55 14.56 14.57 14.58



Here are the numbers
I made:

When rounded to the nearest whole number, I round to 46.	
When rounded to the nearest tenth, I round to 7.9.	
When rounded to the nearest whole number, I round to 3.	

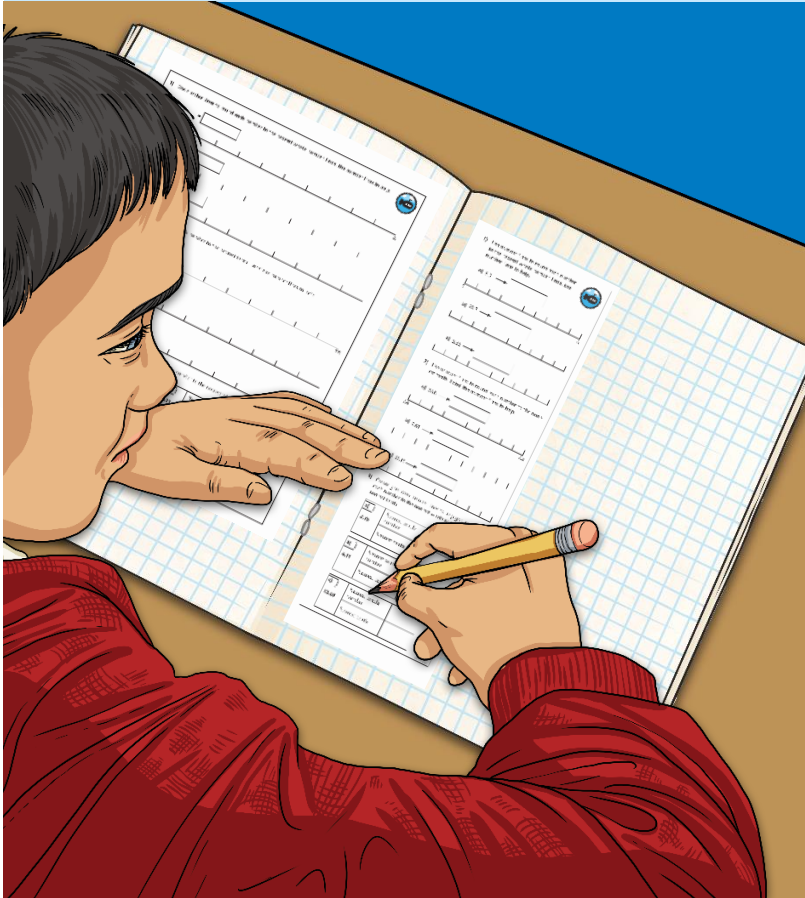
Use the digits **2, 3, 4, 5, 6, 7, 8** and **9** once only to make numbers with at least one decimal place.



What numbers
did you make?

Rounding Decimals

Dive in by completing your own activity!



1) Work out the number line for each number. Label the number lines to help.

• 1.5
• 1.8
• 1.2
• 1.9

2) Use all the numbers to complete the number lines. Label the number lines to help.

When I round to the nearest whole number, the number stays the same.
When I round to the nearest whole number, the number goes up.
When I round to the nearest whole number, the number goes down.

3) Each side of a square is 2.5 units long. Round the number to the nearest whole number and draw the shape. What can you say about the shape?

3) Turn the decimal into a fraction. Write the fraction in its simplest form.

a) Draw a number line from 0 to 10. Label the number line to help you round each number to the nearest whole number and the nearest tenth.

b) Write the number on the number line.

9.95
9.83

b) Write the number on the number line.

1) Mo has 100p. He has 70p. He has 80p. He has 120p. He has 30p. He has 110p. He has 90p.

2) Use number lines to round each number to the nearest whole number. Label the number lines to help.

a) 5.3 →

b) 10.7 →

c) 8.35 →

2) Use number lines to round each number to the nearest tenth. Label the number lines to help.

a) 7.68 →

b) 9.61 →

c) 12.15 →

3) Create your own number lines to help you round each number to the nearest whole number and the nearest tenth.

a)	Nearest whole number	<input type="text"/>	b)	Nearest whole number	<input type="text"/>
2.75	Nearest tenth	<input type="text"/>	4.11	Nearest tenth	<input type="text"/>

c)	Nearest whole number	<input type="text"/>
13.69	Nearest tenth	<input type="text"/>

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Need Planning to Complement this Resource?

National Curriculum Aim

Round decimals with two decimal places to the nearest whole number and to one decimal place.

For more planning resources to support this aim, [click here](#).

The image displays two sets of educational resources from Twinkl Planit, each designed to support the National Curriculum Aim of rounding decimals.

Left Set: Minibeast Rounding

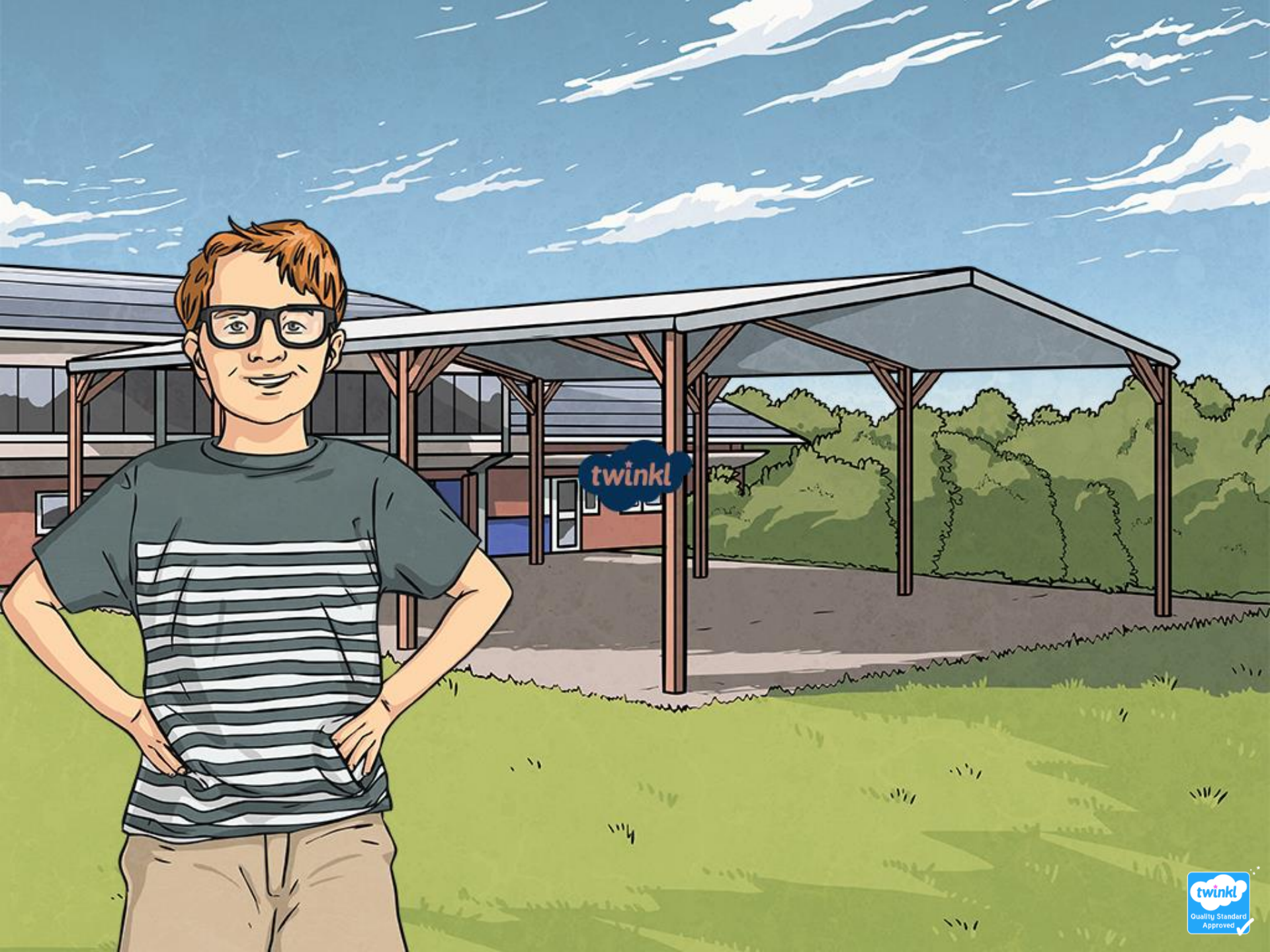
- Video Thumbnail:** Titled "Rounding to the Nearest Whole Number" and "Decimal Rounding". It shows a number line with 25.58 rounded to 26 and a table of numbers to round: 22.41 to 22, 51.83 to 52, and 105.59 to 106.
- Fractions: Minibeast Rounding:** A worksheet with a table for recording answers and a "Roll and Round Dice Game" section.
- Roll and Round Dice Game:** A game where students roll a die and round a decimal number to the nearest whole number.

Right Set: On the Beach Rounding

- Video Thumbnail:** Titled "Rounding to One Decimal Place" and "Decimal Rounding". It shows a number line with 7.38 rounded to 7.4 and a table of numbers to round: 22.41 to 22.4, 105.59 to 105.6, 51.83 to 51.8, and 176.15 to 176.2.
- Fractions: On the Beach Rounding:** A worksheet with a table for recording answers and a "Roll and Round Dice Game" section.
- Roll and Round Dice Game:** A game where students roll a die and round a decimal number to one decimal place.

Twinkl Planit is our award-winning scheme of work with over 4000 resources.





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