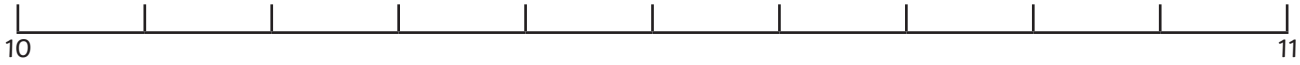
1) Use number lines to round each number to the nearest whole number.

a) 5.3 → ☐

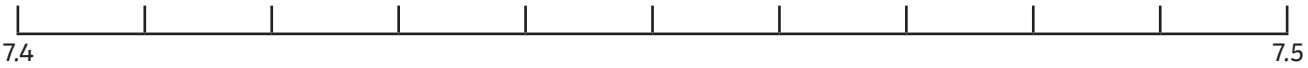
b) 10.7 → ☐



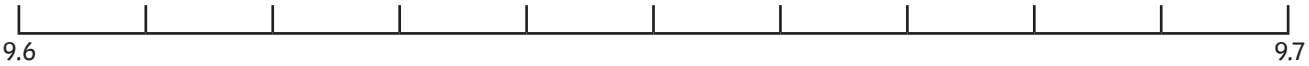
c) 8.35 → ☐

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

a) 7.48 → ☐



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.

	Nearest whole number	Nearest tenth
2.75		
4.11		
13.69		

1) **a)** Mo has been rounding decimal numbers to the nearest whole number. Place a tick by the correct answers and correct the incorrect answers.

Number	Rounded to Whole Number	Correct (✓) or Correction
7.2	7	
8.5	8	
12.9	13	
3.4	3	
11.5	11	
9.5	9	

b) Mo has made the same mistake throughout. In the box below, explain to Mo the mistake he has made.

2) Harjot has written some rules for rounding a decimal number to the nearest tenth.

Is this a good way to explain how to round decimal numbers to the nearest tenth? If not re-write the rules and explain why this would be an improvement.

Harjot

1) Look at the third digit.

2) If this digit is 5 or above, then round it up to the next tenth.

3) If this digit is below 5, then the tenth digit stays the same.

3) Tara is thinking of a number with two decimal places. Rounded to the nearest whole number, the number is 10. Rounded to the nearest tenth the number is 9.8.

a) Draw a circle around all the numbers it could be:

9.95	10.05	10.22	9.81
9.83	9.85	9.84	

b) Write another 2 numbers it could be. Make each of the numbers have a different tenths digit.

1) Work out all the possible numbers a mystery number can be from these clues:

- I have two decimal places.
- I round to 18 to the nearest whole number.
- I round to 17.6 to the nearest tenth.
- The hundredths digit is odd.

2) Use all the digits 1, 2, 3, 4, 5, 6, 7 and 8 once only to make three different numbers with at least one decimal place.

When rounded to the nearest whole number, I round to 9.	
When rounded to the nearest tenth, I round to 6.5.	
When rounded to the nearest whole number, I round to 12.	

3) Each side of this shape is a measurement with two decimal places. When each side is rounded to the nearest whole number, the perimeter of the shape is 13m, to the nearest metre.

What could be the possible length of the fourth side?