

First, begin the lesson by completing a simulation of the year 4 multiplication test.

You have 25 random times table questions to answer and you are given 6 seconds to answer each one. Try not to use any times tables sheets/ resources to help you, we need to be fluent by now!

Lesson:

Today, we are going to be rounding decimals to the nearest integer (whole number).

First, I would like you to identify which numbers are integers and which are decimals: Write them in two lists in your book.

1.4 5 4.8 6 3.9 2.1
6.7 8 1 4.2 9.4 7

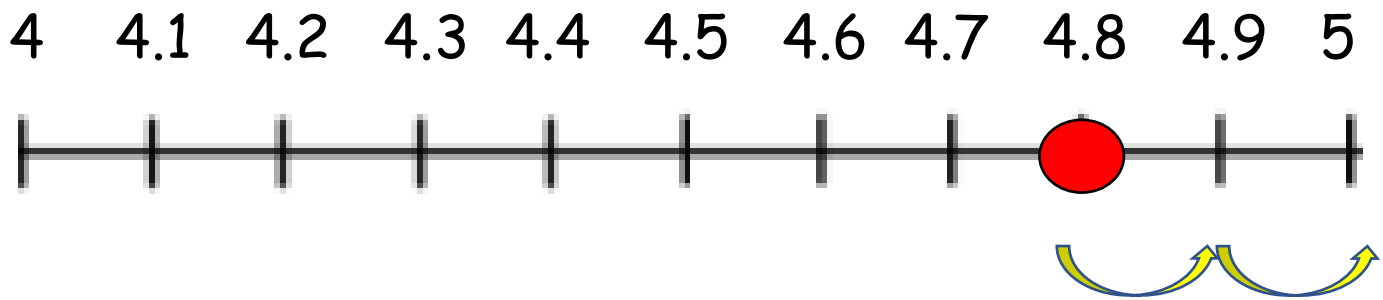
Now, we will look at rounding decimals to the nearest integer.

The decimal 4.8 is between the two integers 4 and 5. Let's draw a number line to show it.

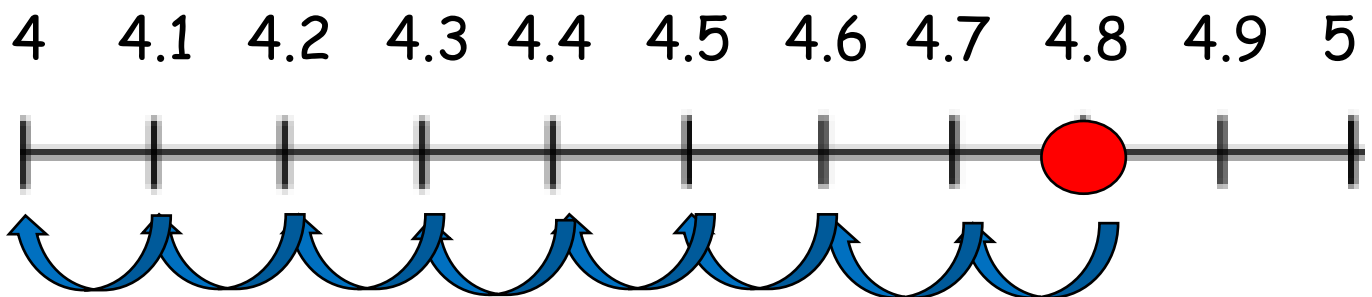


I have put a red dot on 4.8. When we round up or down, we need to count how many jumps it will take to get to each integer. The one with the least amount of jumps is the closest so we would round to that number.

In this question, the two integers are 4 and 5. We need to see which is closest.



The yellow arrows show that there are 2 jumps from 4.8 to reach 5.

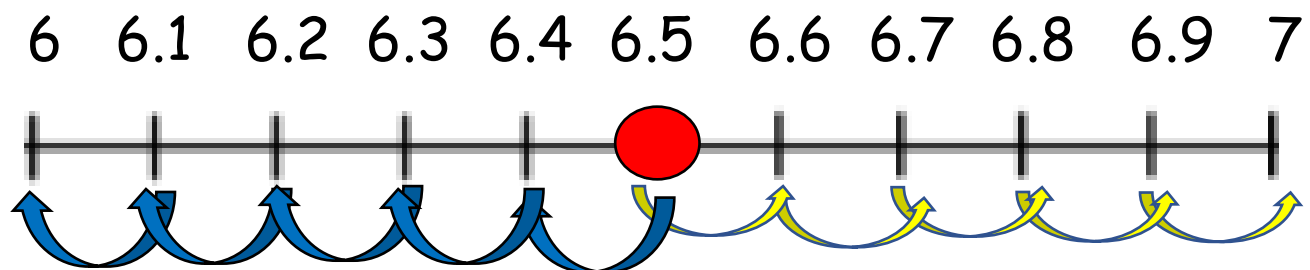


The blue arrows show that there are 8 jumps from 4.8 to reach 4.

Therefore, 4.8 is closer to 5, meaning 4.8 rounded to the nearest integer is 5.

What happens if a decimal is exactly half-way between two integers, for example 6.5?

Let's look at how we would solve this one. 6.5 is in between 6 and 7, so our number line should start with 6 and end with 7.



I have put a red dot on 6.5.

The yellow arrows show us that there are 5 jumps from 6.5 to 7.

The blue arrows show us that there are 5 jumps from 6.5 to 6.

So which do we round to if there are exactly 5 jumps on each side?

When this happens, we always round **UP**.

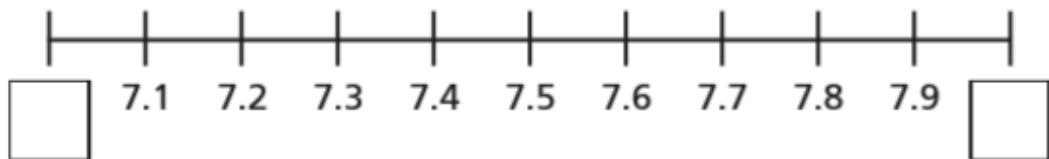
So, the decimal 6.5 rounded to the nearest integer is 7.

TASK:

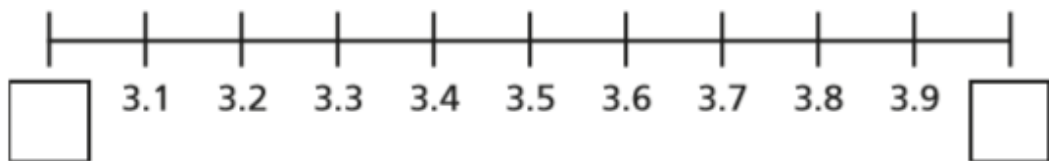
Answer the following questions in your book. When drawing the number lines, remember, each jump needs to be measured accurately and every number should be the same distance apart.

3 Fill in the integers on the number lines.

a)



b)



4 Which integers do the numbers lie between?

Fill in the boxes to make the statements correct.

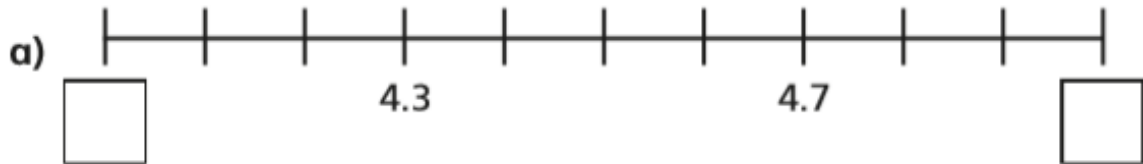
a) < 1.4 <

b) < 34.8 <

c) < 0.7 <

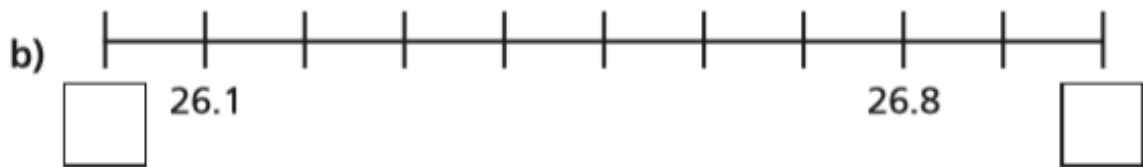
6

Complete the number lines and sentences.



is closer to than

is closer to than

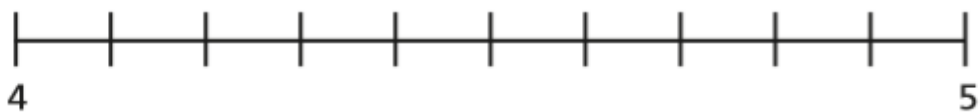


is closer to than

is closer to than

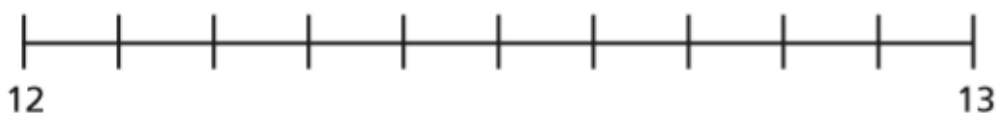
5

a) Label 4.3 on the number line.



Is it closer to 4 or 5?

b) Label 12.8 on the number line.



Is it closer to 12 or 13?

Challenges:

Jack:

- 10 Tommy is thinking of a number that has one decimal place. When he rounds his number to the nearest whole, the answer is 32
- What number could Tommy be thinking of?
- Are there any other answers?

Queen:

- 7 Which numbers round up to the nearest whole number?
Circle your answers.

4.1 2.8 0.7 12.3 0.5 99.3

Ace:

- 9 Ron is rounding 8.2 to the nearest whole number.



Because 2 tenths is less than 5 tenths, the number rounds down to 7

Do you agree with Ron? _____

Explain your answer.

Afterwards, practise your maths skills using [Mathletics](https://www.mathletics.com) and [Timestables.co.uk](https://www.timestables.co.uk). Have fun! Keep learning your times tables.