

DECIMALS – DAY 5

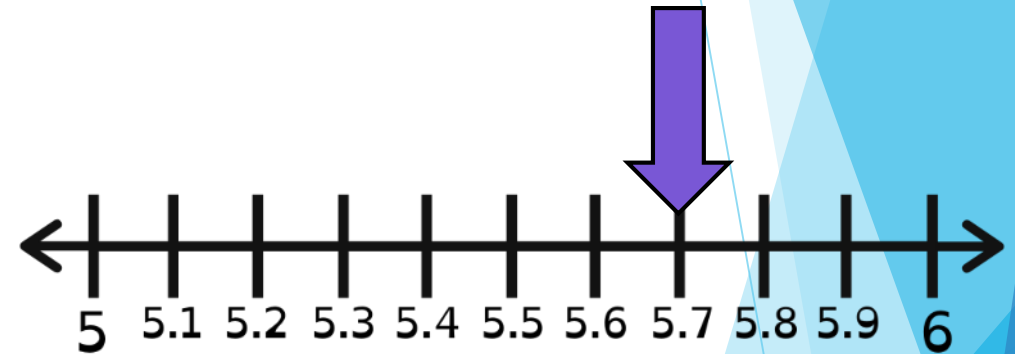
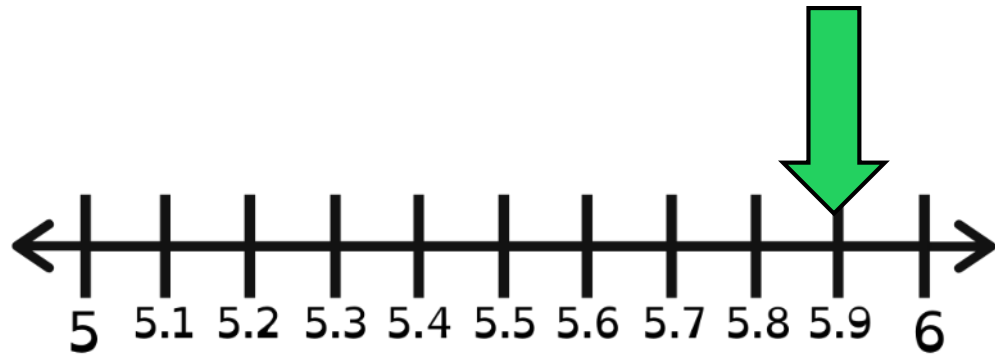
To be able to round numbers with one decimal place

SUCCESS CRITERIA

- ✓ I can use mathematical equipment and pictorial representations, such as number lines, to help me round numbers with one decimal place to the nearest whole number.
- ✓ I can explain my reasoning when using mathematical equipment and pictorial representations, such as number lines, to help me round numbers with one decimal place to the nearest whole number.

STARTER

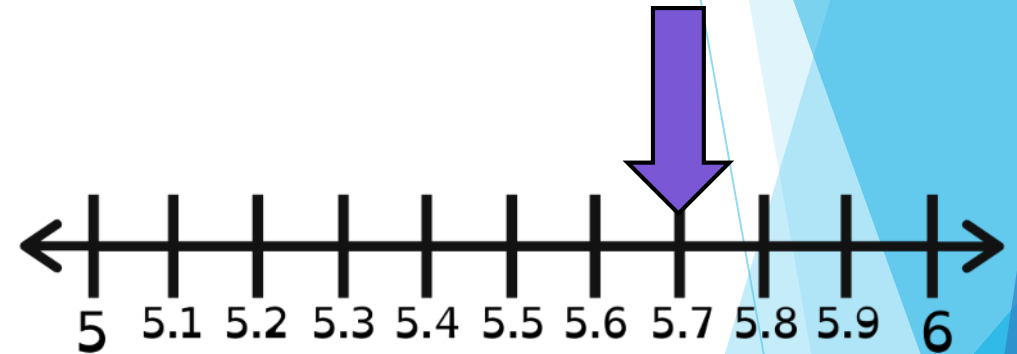
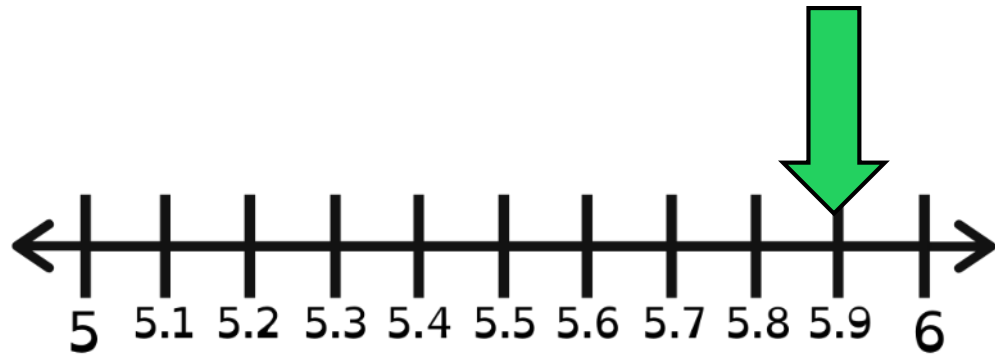
Looking at the number lines below, what's the same? What's different?



Explain your answer.

STARTER

Looking at the number lines below, what's the same? What's different?

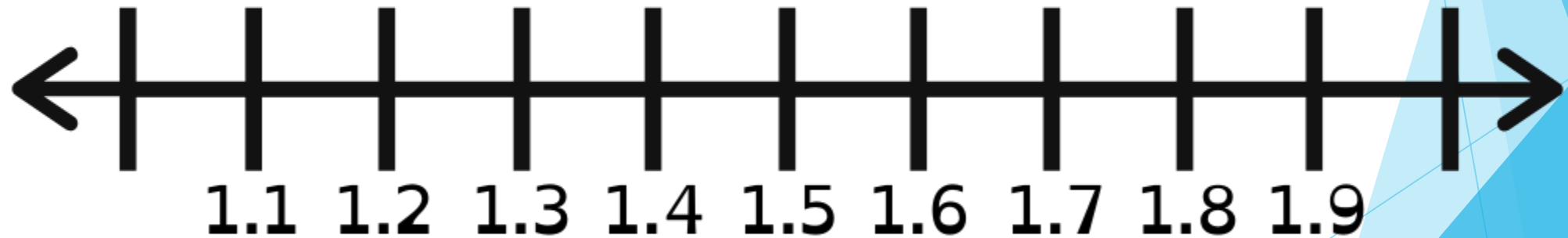


The green arrow represents 5.9, while the purple arrow is pointing to 5.7. So, both numbers have the same ones digit but different tenths digits.

Both numbers round to 6 to the nearest whole number.

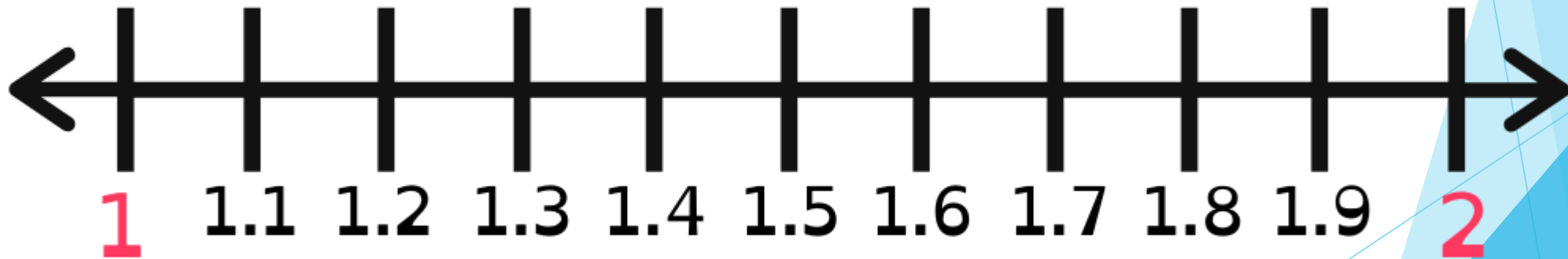
TALKING TIME

Which whole numbers should go on either end of the number line?



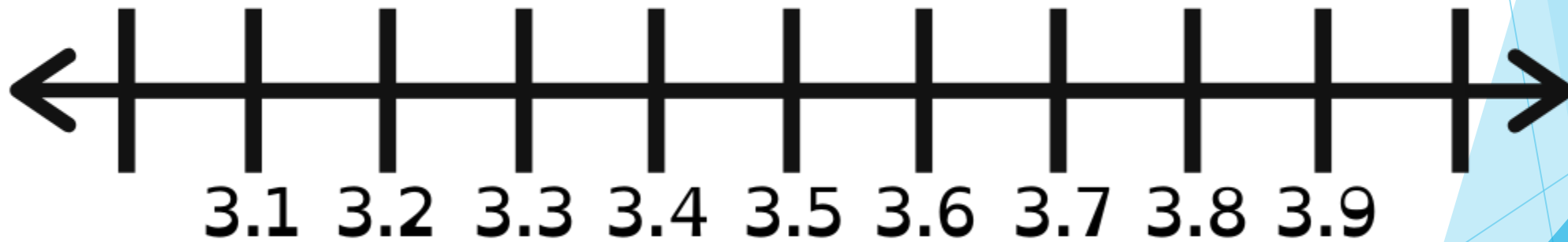
TALKING TIME

Which whole numbers should go on either end of the number line?



TALKING TIME

Which whole numbers should go on either end of the number line?



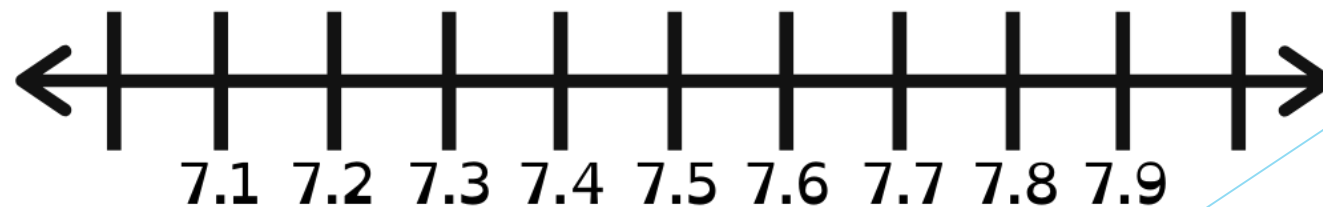
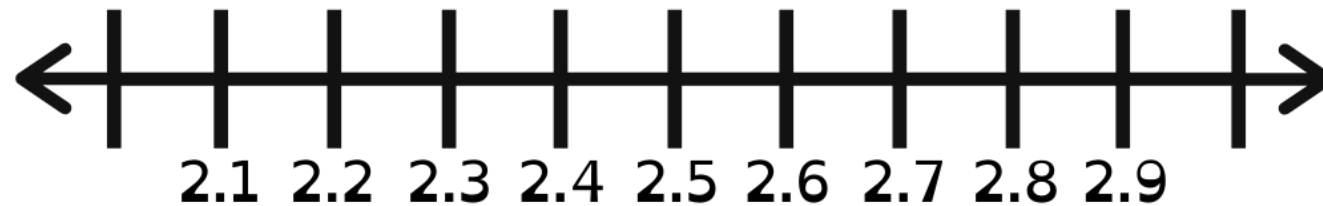
TALKING TIME

Which whole numbers should go on either end of the number line?



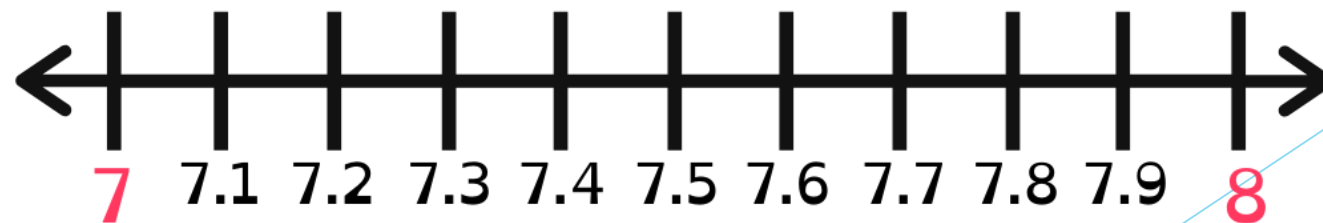
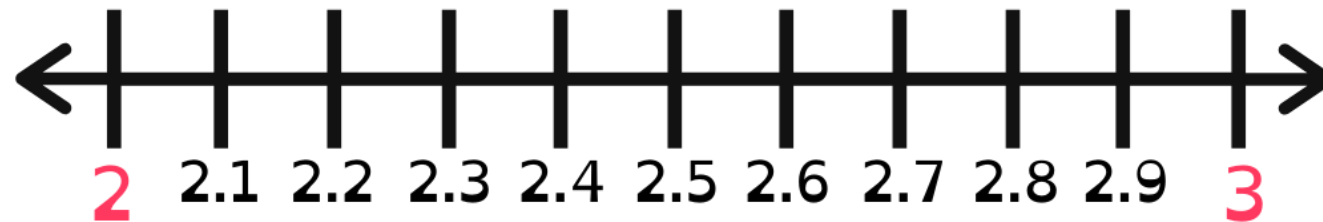
ACTIVITY 1

Which whole numbers should go on either end of the number lines below?



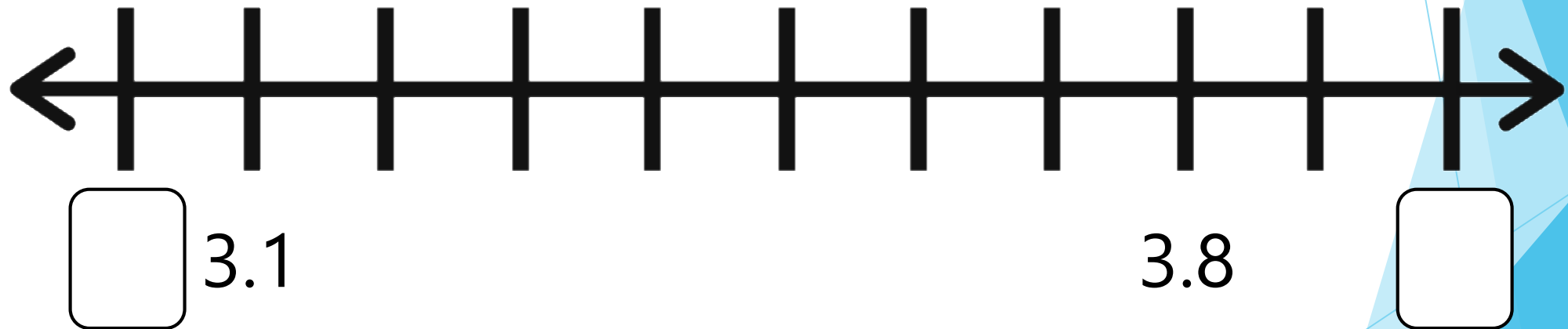
ACTIVITY 1

Which whole numbers should go on either end of the number lines below?



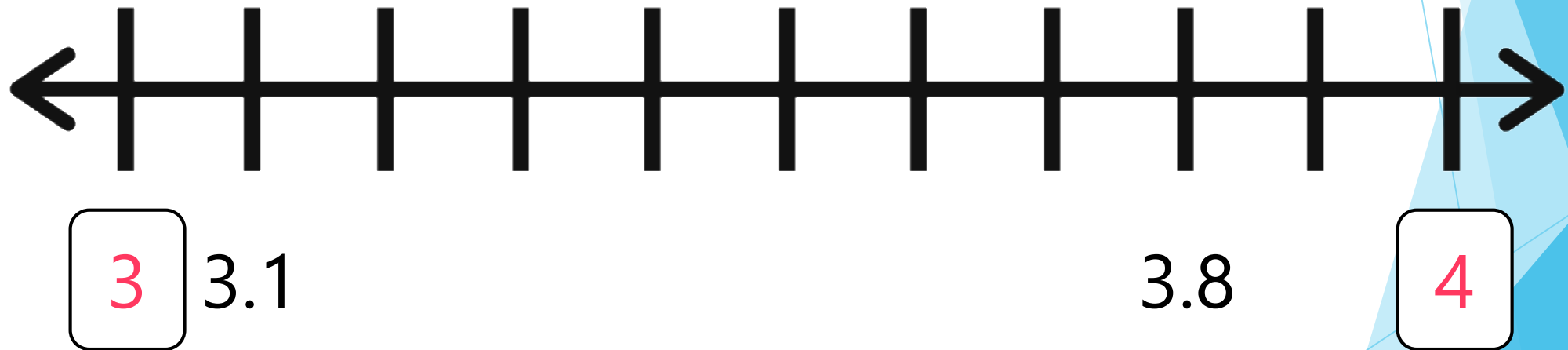
TALKING TIME

Which whole numbers should go on either end of the number line?



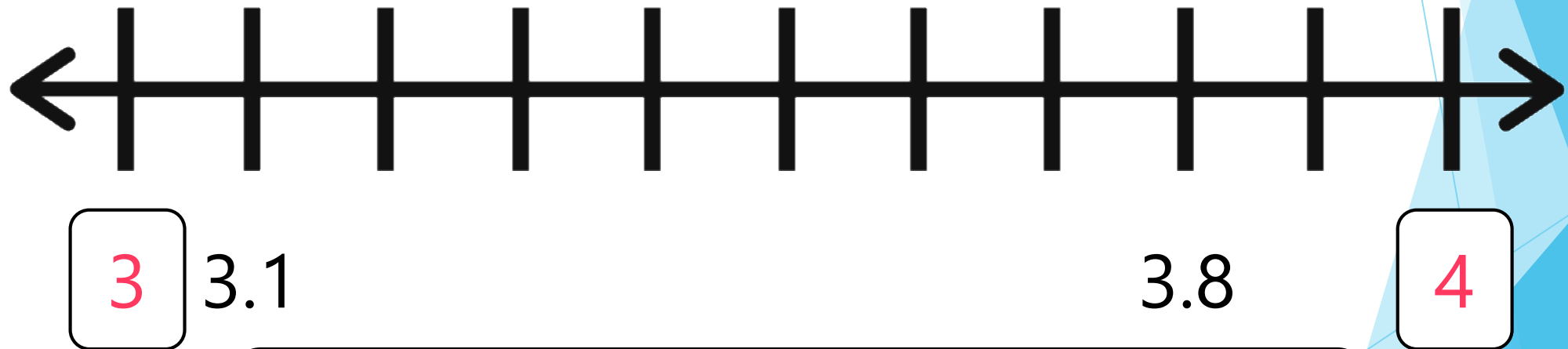
TALKING TIME

Which whole numbers should go on either end of the number line?



TALKING TIME

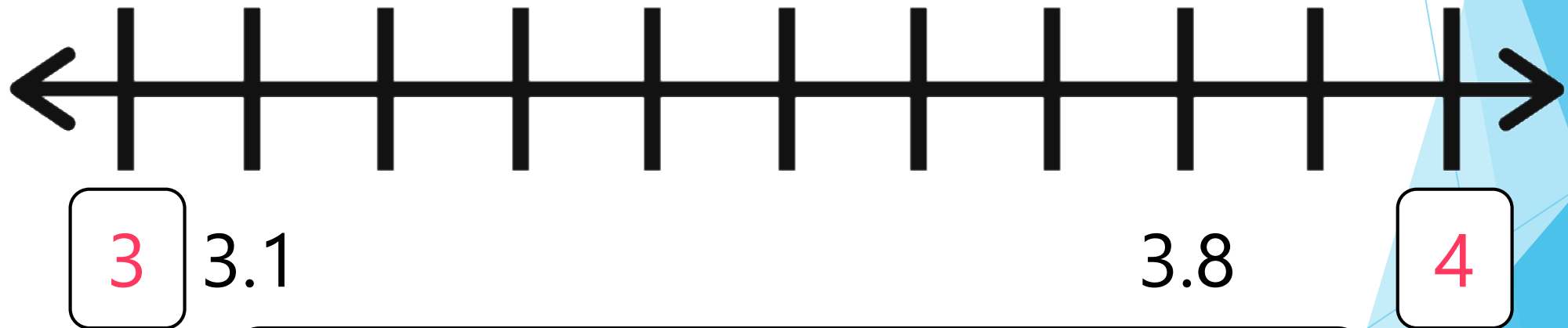
Which whole numbers should go on either end of the number line?



3.1 is closer to _ than _.
3.1 rounds to _ to the nearest integer.

TALKING TIME

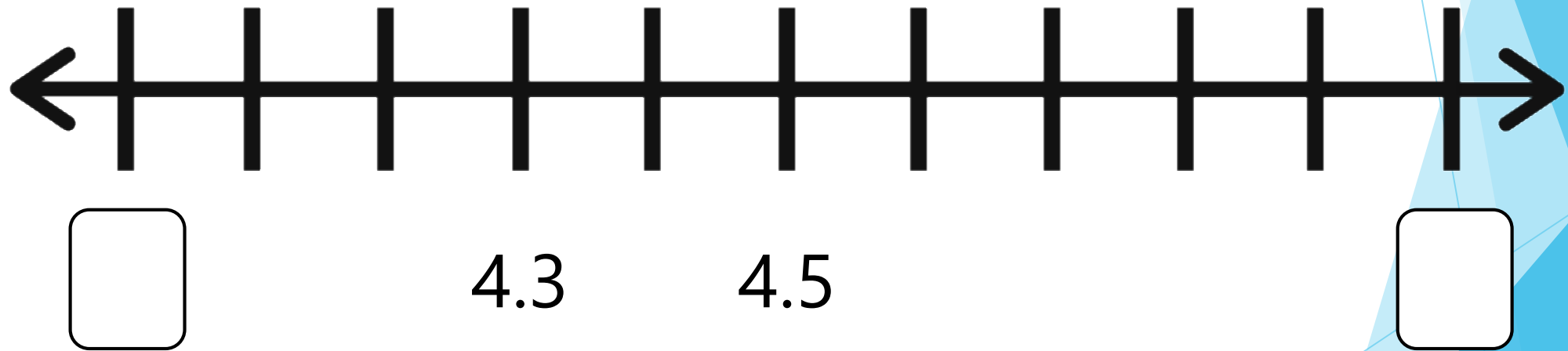
Which whole numbers should go on either end of the number line?



3.1 is closer to 3 than 4.
3.1 rounds to 3 to the nearest integer.

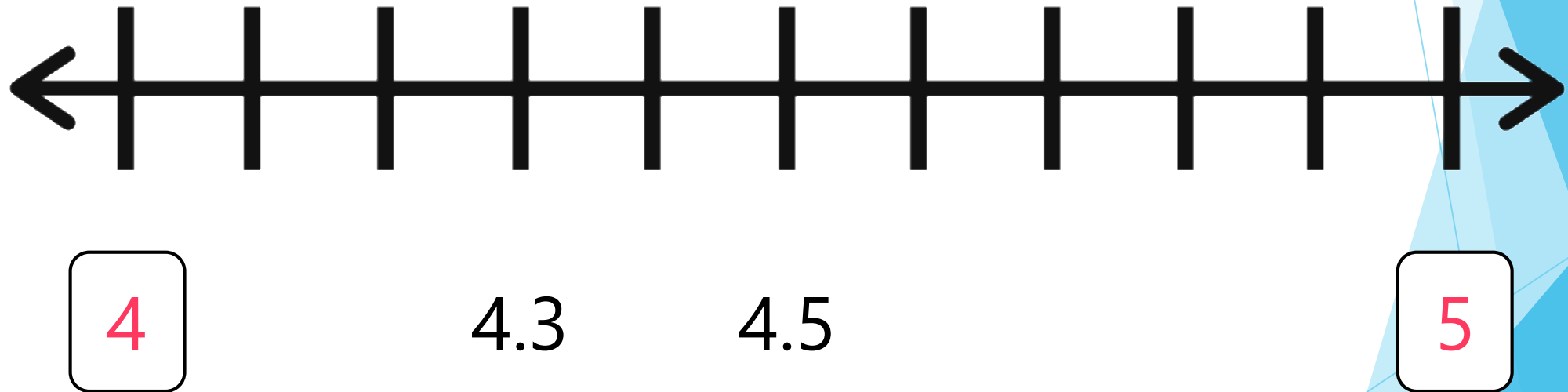
TALKING TIME

Which whole numbers should go on either end of the number line?



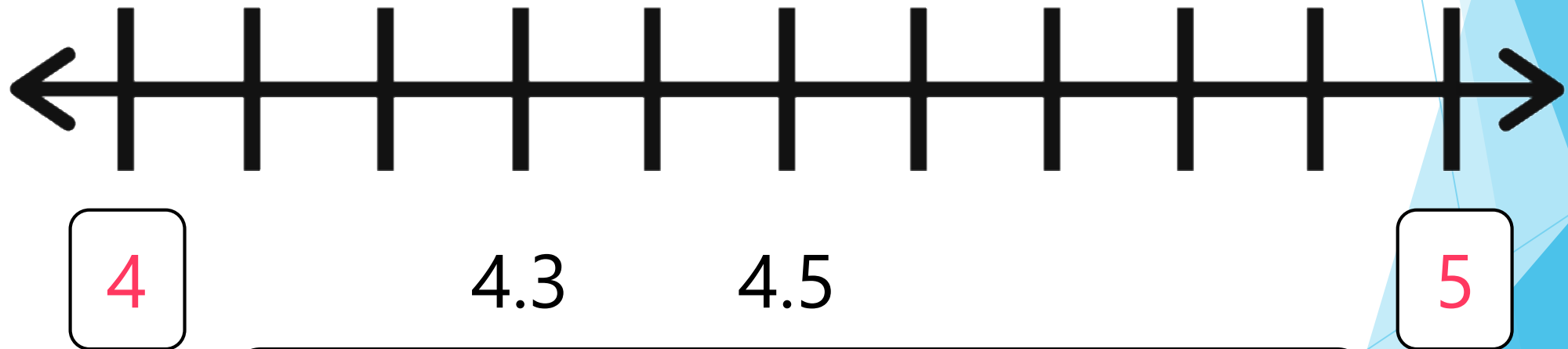
TALKING TIME

Which whole numbers should go on either end of the number line?



TALKING TIME

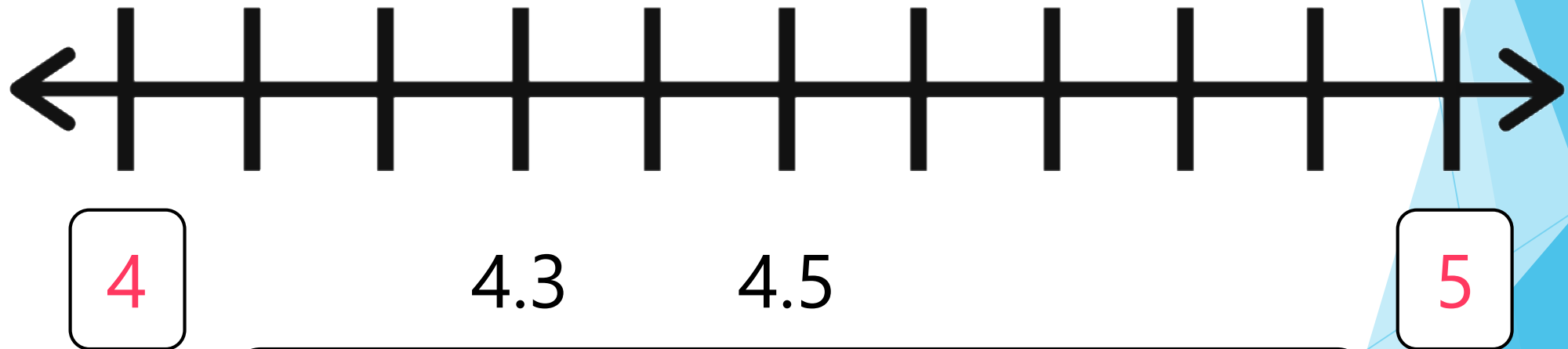
Which whole numbers should go on either end of the number line?



4.3 is closer to _ than _.
4.3 rounds to _ to the nearest integer.

TALKING TIME

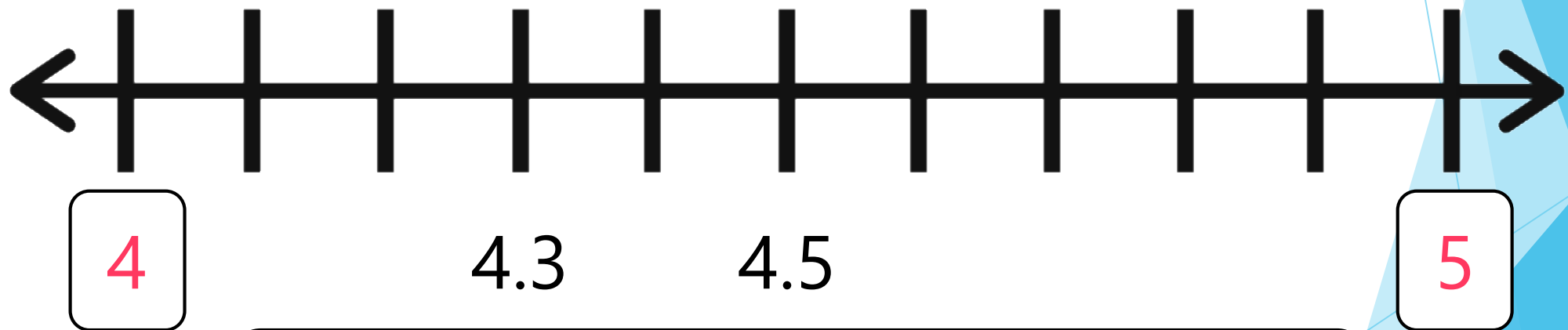
Which whole numbers should go on either end of the number line?



4.3 is closer to 4 than 5.
4.3 rounds to 4 to the nearest integer.

TALKING TIME

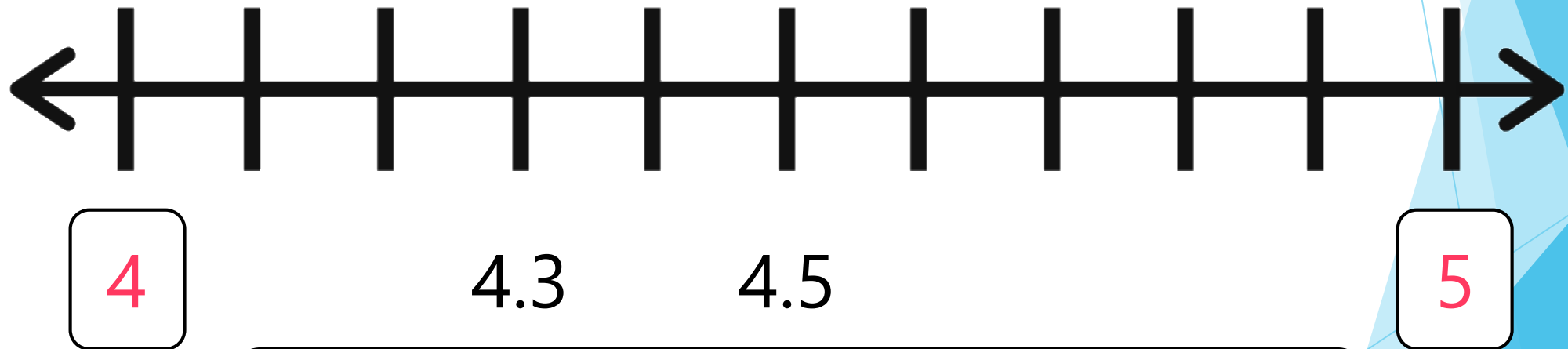
Which whole numbers should go on either end of the number line?



4.5 rounds to _ to the nearest integer.

TALKING TIME

Which whole numbers should go on either end of the number line?

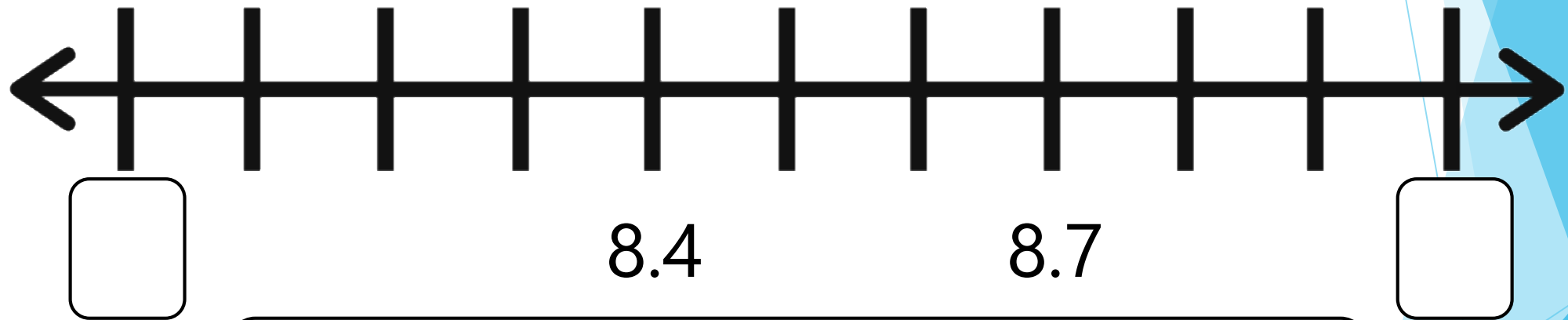


4.5 rounds to 5 to the nearest integer.

To be able to round numbers with one decimal place

Activity 2:

Which whole numbers should go on either end of the number line?



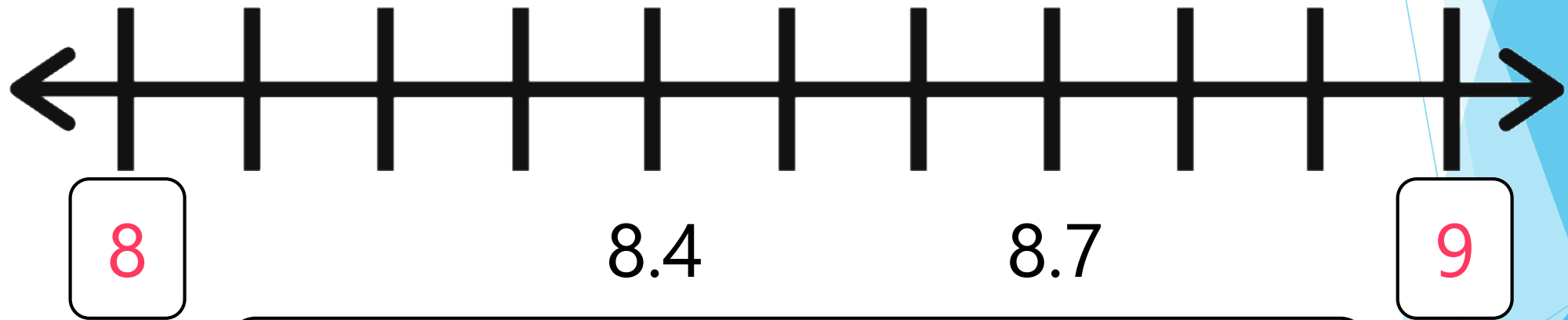
8.7 is closer to _ than _.
8.7 rounds to _ to the nearest integer.

8.4 is closer to _ than _.
8.4 rounds to _ to the nearest integer.

To be able to round numbers with one decimal place

Activity 2:

Which whole numbers should go on either end of the number line?



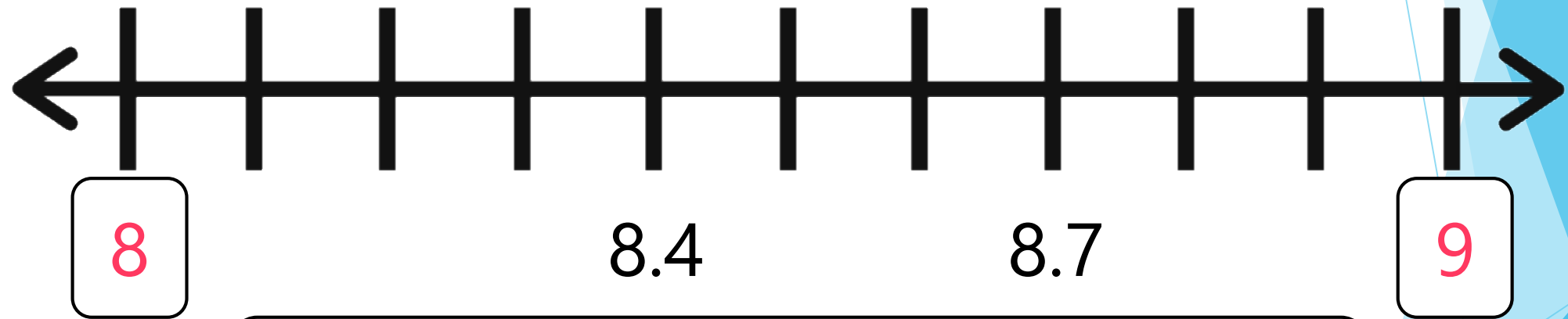
8.7 is closer to _ than _.
8.7 rounds to _ to the nearest integer.

8.4 is closer to _ than _.
8.4 rounds to _ to the nearest integer.

To be able to round numbers with one decimal place

Activity 2:

Which whole numbers should go on either end of the number line?



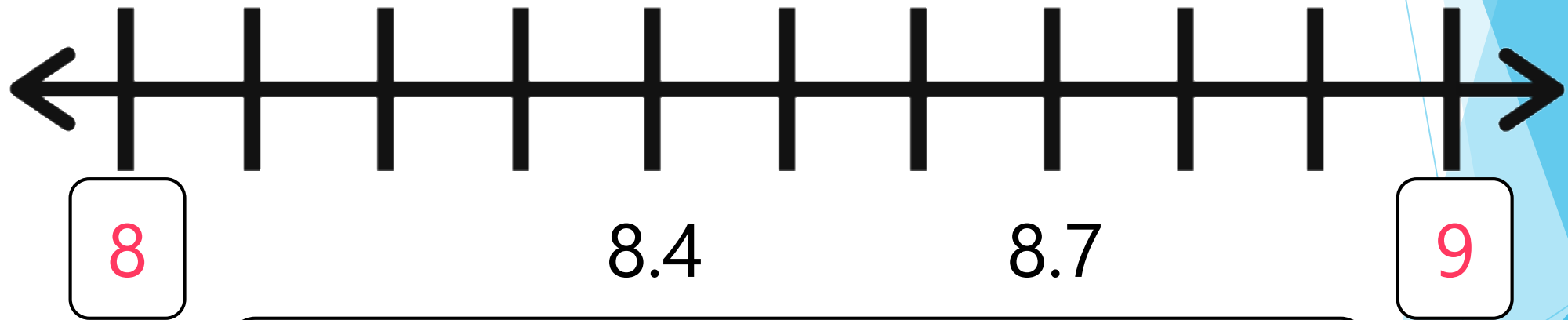
8.7 is closer to 9 than 8.
8.7 rounds to 9 to the nearest integer.

8.4 is closer to _ than _.
8.4 rounds to _ to the nearest integer.

To be able to round numbers with one decimal place

Activity 2:

Which whole numbers should go on either end of the number line?



8.7 is closer to 9 than 8.
8.7 rounds to 9 to the nearest integer.

8.4 is closer to 8 than 9.
8.4 rounds to 8 to the nearest integer.

TALKING TIME

Shade in the numbers that round up to the nearest whole number.

3.6

23.5

1.4

15.7

9.3

46.2

TALKING TIME

Shade in the numbers that round up to the nearest whole number.

3.6

23.5

1.4

15.7

9.3

46.2

TALKING TIME

Shade in the numbers that round up to the nearest whole number.

4.1

42.4

2.7

23.2

7.9

64.8

TALKING TIME

Shade in the numbers that round up to the nearest whole number.

4.1

42.4

2.7

23.2

7.9

64.8

TALKING TIME

Shade in the numbers that round down to the nearest whole number.

5.8

63.2

13.9

24.3

12.4

7.5

TALKING TIME

Shade in the numbers that round down to the nearest whole number.

5.8

63.2

13.9

24.3

12.4

7.5

ACTIVITY 3

Shade in the numbers that round down to the nearest whole number.

3.4

74.8

24.1

32.5

37.7

22.2

ACTIVITY 3

Shade in the numbers that round down to the nearest whole number.

3.4

74.8

24.1

32.5

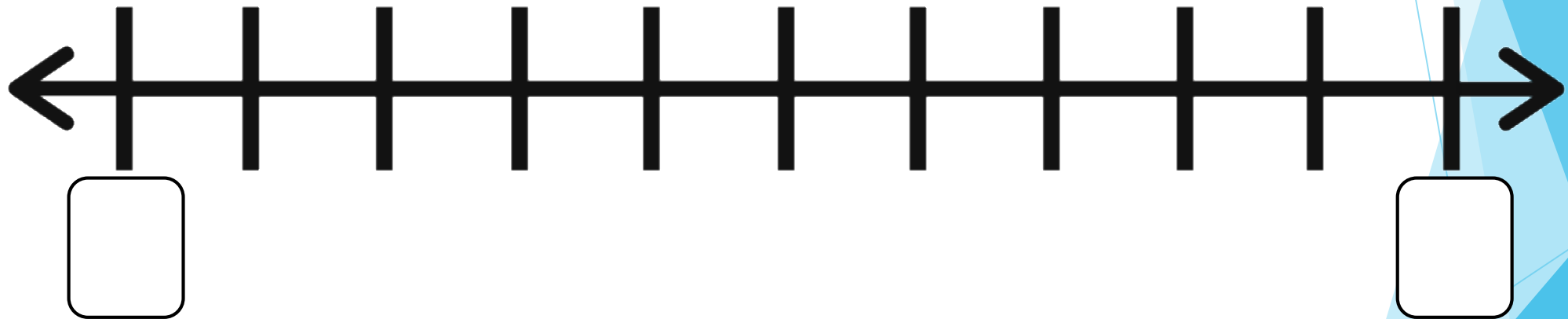
37.7

22.2

ACTIVITY 4

James says, “0.3 rounded to the nearest whole number is 1.”

Ruth says, “0.3 rounds down to 0.”

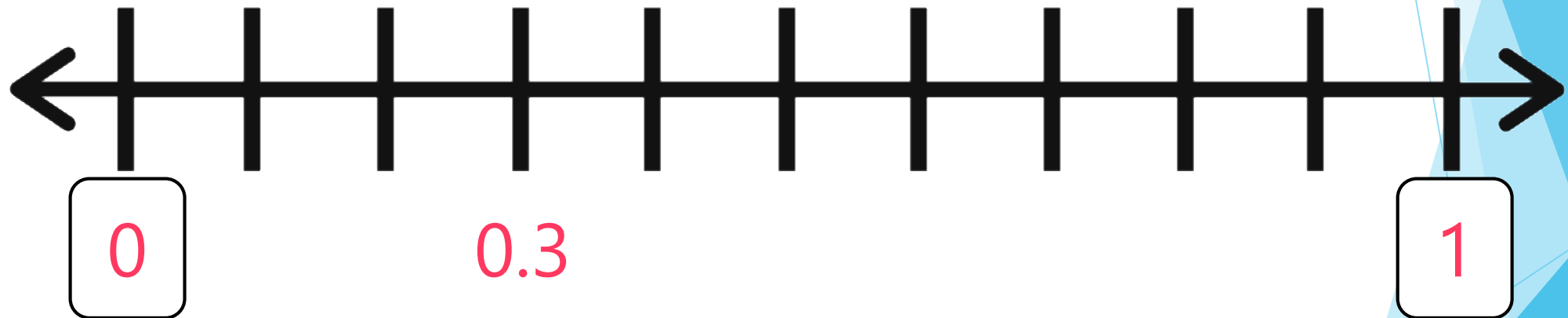


Use the blank number line to help explain your answer.

ACTIVITY 4

James says, “0.3 rounded to the nearest whole number is 1.”

Ruth says, “0.3 rounds down to 0.”



I agree with Ruth, as the digit 3 is worth less than the digit 5 and is closer to 0 than 1, it means 0.3 rounds down to 0.

ACTIVITY 5

A number with a tens digit, ones digit and a tenths digit rounds to 36.

What might the number be?

How many possibilities did you think of?

Did you find all possibilities?

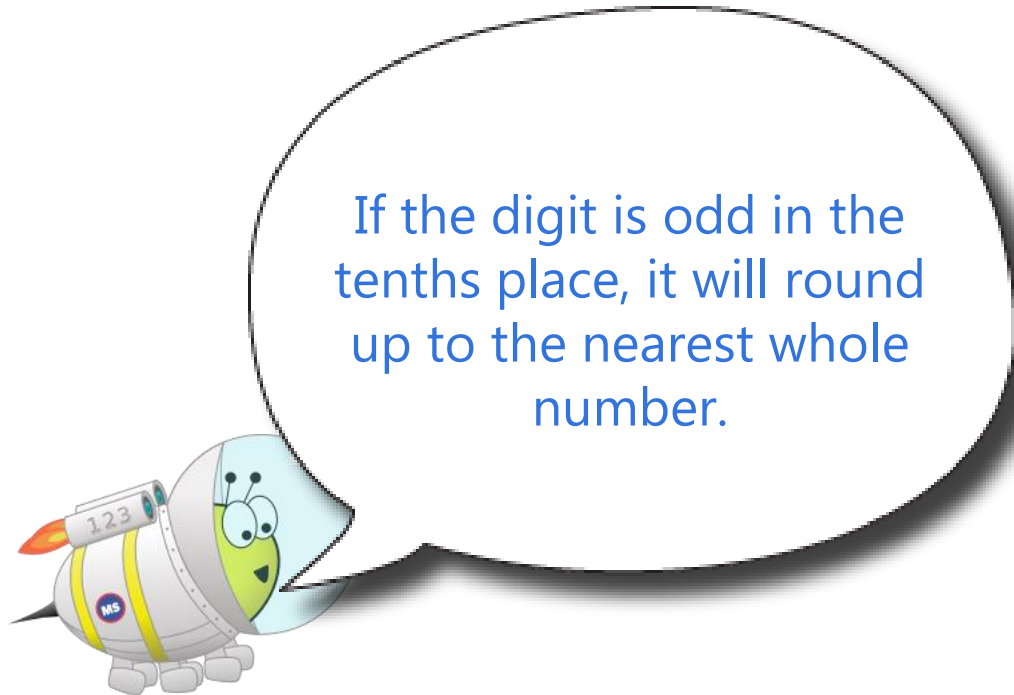
Explain your answer.

ACTIVITY 5

A number with a tens digit, ones digit and a tenths digit rounds to 36.

The numbers could be 35.5, 35.6, 35.7, 35.8, 35.9, 36.1, 36.2, 36.3 or 36.4, as the 35 examples provided have a digit of 5 or greater meaning they will round up to 36, while the 36 examples provided each have a digit between 1 and 4, meaning they will round down to 36.

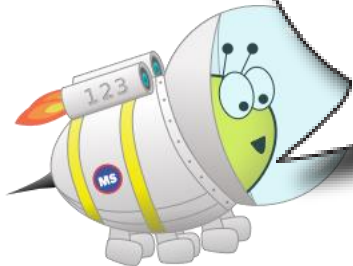
EVALUATION



Is Astrobee's statement always, sometimes or never true?
Provide examples to explain your answer.

EVALUATION

If the digit is odd in the tenths place, it will round up to the nearest whole number.



Astrobee's statement is only sometimes true. For example, 13.5, 24.7 and 31.9 all round up to the nearest whole number, but 23.1 and 49.3 round down.