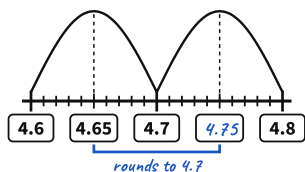


Error Intervals from Rounding

ANSWERS

1

x is 4.7 rounded to 1 decimal place. Put it in the valley. The bounds are the two tops. Find them.

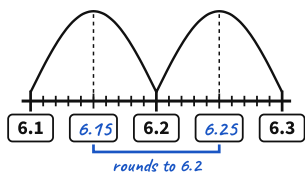


Lower bound 4.65

Upper bound 4.75

2

x is 6.2 rounded to 1 decimal place. Put it in the valley. The bounds are the two tops. Find them.

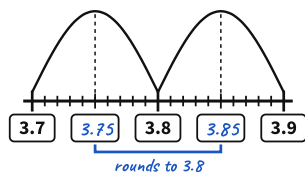


Lower bound 6.15

Upper bound 6.25

3

x is 3.8 rounded to 1 decimal place. Put it in the valley. The bounds are the two tops. Find them.

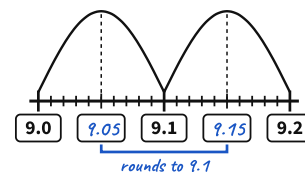


Lower bound 3.75

Upper bound 3.85

4

x is 9.1 rounded to 1 decimal place. Put it in the valley. The bounds are the two tops. Find them.

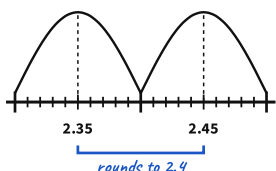


Lower bound 9.05

Upper bound 9.15

5

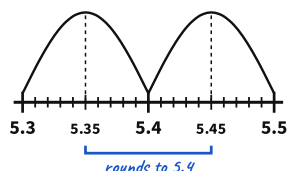
The two tops are at 2.35 and 2.45. What number is in the valley?



Valley 2.4

6

x rounds to 5.4 to 1 decimal place. Could x be 5.35? Could x be 5.45?

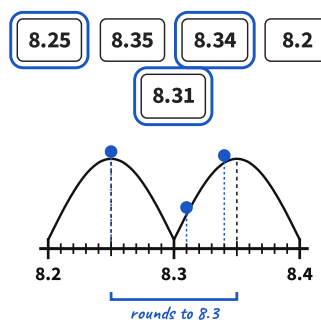


5.35 Yes

5.45 No

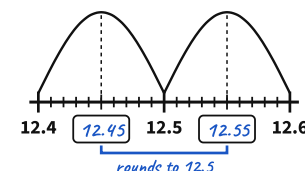
7

Circle the numbers that round to 8.3 to 1 decimal place.



8

A pencil is 12.5 cm long, to 1 decimal place. What is the shortest it could be?



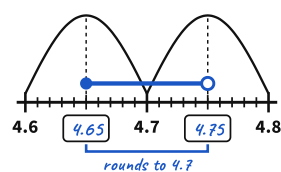
Shortest 12.45 cm

Error Intervals from Rounding *further practice*

ANSWERS

9

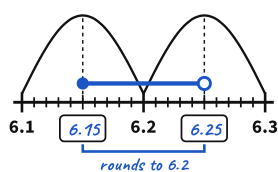
x is 4.7 rounded to 1 decimal place. Write the error interval for x.



$$4.65 \leq x < 4.75$$

10

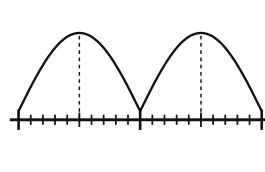
x is 6.2 rounded to 1 decimal place. Write the error interval for x.



$$6.15 \leq x < 6.25$$

11

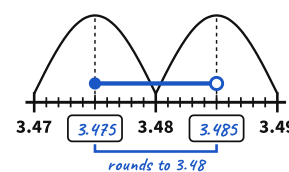
x is 3.9 rounded to 1 decimal place. Write the error interval for x.



$$3.85 \leq x < 3.95$$

12

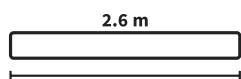
x is 3.48 rounded to 2 decimal places. Write the error interval for x.



$$3.475 \leq x < 3.485$$

13

A plank is 2.6 m long, to 1 decimal place. Write the error interval for its length, l.



$$2.55 \leq l < 2.65$$

14

x is 7.3 rounded to 1 decimal place. Which error interval is right?

$$\text{A } 7.25 \leq x \leq 7.35$$

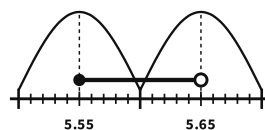
$$\text{B } 7.25 \leq x < 7.35$$

$$\text{C } 7.25 < x < 7.35$$

Answer B

15

An error interval is $5.55 \leq x < 5.65$. What was x rounded to?

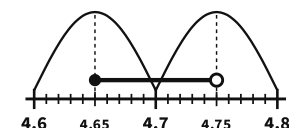


Rounded 5.6

To 1 decimal place

16

x is 4.7 rounded to 1 decimal place. Mo says the biggest x could be is 4.74. Is Mo right? Explain.



No. 4.749 rounds to 4.7 too.

x can be just under 4.75.