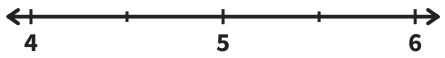
# Error intervals

**1**

$x = 5$, to the nearest whole number.
Show the error interval on the number line, then write it.




half of 1: 0.5

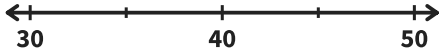
lower bound: 4.5

upper bound:

Answer

**2**

$x = 40$, to the nearest 10. Show the error interval on the number line, then write it.




half of 10: 5

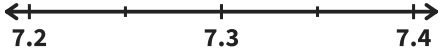
lower bound:

upper bound:

Answer

**3**

$x = 7.3$, to 1 decimal place.
Show the error interval on the number line, then write it.




half of 0.1:

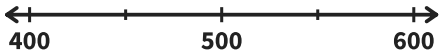
lower bound:

upper bound:

Answer

**4**

$x = 500$, to the nearest 100.
Show the error interval on the number line, then write it.




Answer

**5**

$x = 2600$, to 2 significant figures.
Write the error interval for $x$.

rounding unit:

half of it:

Answer

**6**

A bag of flour weighs 1.5 kg, to 1 decimal place. Write the error interval for its mass, $m$ kg.

Answer

**7**

Tom says the error interval for $x = 4.8$, to 1 decimal place, is $4.7 \leq x < 4.9$.
Explain his mistake. Then write the right error interval.

Answer

**8**

A number $y$, rounded to 1 decimal place, has the error interval $6.35 \leq y < 6.45$.
What is $y$ rounded to 1 decimal place?

Answer

# Error intervals *further practice*

**9**

$x = 3.6$, to 1 decimal place.
Write the error interval for $x$.

**Answer** _____

**10**

$x = 0.47$, to 2 decimal places.
Write the error interval for $x$.

**Answer** _____

**11**

A water tank holds 650 litres, to the nearest 50 litres. Write the error interval for the volume, $V$ litres.

**Answer** _____

**12**

A footbridge is 380 m long, to 2 significant figures. Write the error interval for its length, $L$ metres.

**Answer** _____

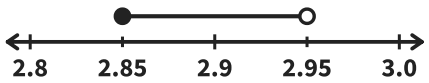
**13**

A number $x$ is truncated to 1 decimal place. The answer is 5.2.
Write the error interval for $x$.

**Answer** _____

**14**

The number line shows the error interval for $x$, rounded to 1 decimal place. Write the error interval.
What is $x$ rounded?




**Answer** _____

**15**

$x = 6.3$, to 1 decimal place.
Which of these could $x$ be? 6.25 6.2 6.349 6.35

**Answer** _____

**16**

Priya writes the error interval for $x = 2.5$, to 1 decimal place, as $2.45 \leq x \leq 2.55$. Explain her mistake.

**Answer** _____