Name _____ Date _____

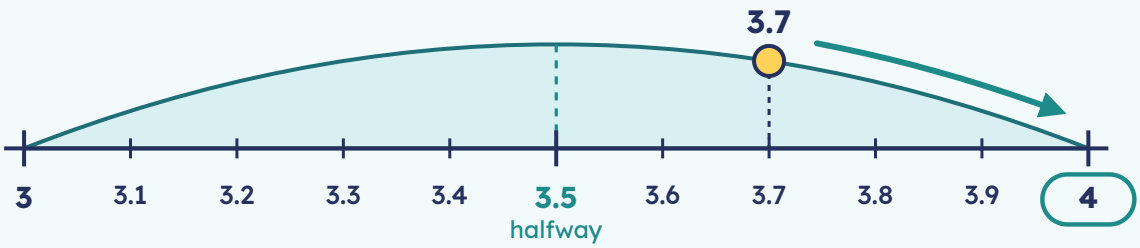
Rounding decimals

Round a number with tenths to the nearest whole number.

1 Learn



In the dunes, each hill goes from one whole number to the next, with ten tenths in between. The **tenths digit** decides!



Ones		Tenths
6	.	3

ones in yellow, deciding digit ringed

Round 6.3 to the nearest whole number

1. Find the whole numbers either side: **6** and **7**. Halfway is **6.5**.
2. The deciding digit is the tenths digit: **3**.
3. 3 is less than 5, so round **down**: 6.3 rounds to **6**.

But 6.5 is halfway, so it rounds **up** to **7**.

Flip's tip: the deciding digit is the first digit after the decimal point. A ribbon 2.8 m long is nearer to **3 m** than to 2 m.

Warm up: write the whole numbers either side of each number.

☐ **4.6** ☐ ☐ **0.3** ☐ ☐ **12.9** ☐

Grown-ups: read 3.7 as "three point seven" or "three and seven tenths". The digits after the point are not "thirty-seven" of anything.

Name _____ Date _____

2 Try it together a child and a grown-up, about 10 minutes

Ruler round-up

You need: a ruler marked in centimetres and millimetres, and 4 small things to measure (a pencil, a spoon, a sock, a leaf…).

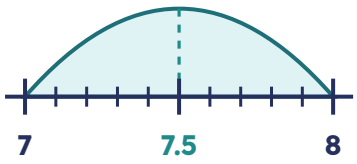
1. Measure each thing in centimetres. Write it with one decimal place: 13 cm and 4 mm is **13.4 cm**.
2. Ring the deciding digit: the tenths.
3. Round to the nearest whole centimetre.
4. Which thing was closest to a whole number of centimetres?

Thing	Length (cm)	Nearest whole cm

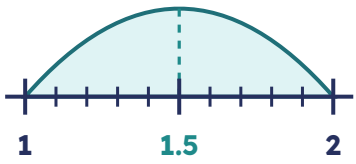
Grown-ups: each small mark on a ruler is 1 mm, which is one tenth of a centimetre. Help line up the 0 on the ruler with the end of the thing.

3 Practise

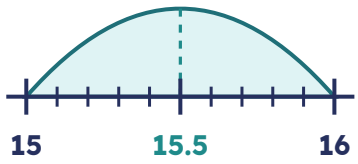
A. Put a dot on the hill for each number. Then round it to the nearest whole number.



7.2 rounds to ____



1.5 rounds to ____



15.8 rounds to ____

Rounding decimals

Name _____ Date _____

B. Round each number to the nearest whole number.

4.4 → ☐ **8.5** → ☐ **12.9** → ☐

0.6 → ☐ **19.5** → ☐ **30.1** → ☐

C. Draw a ring round every number that rounds to **5**.

4.2 **4.5** **5.5** **5.1** **4.9** **5.4** **6.0** **3.5**

D. Round each measurement to the nearest whole unit.

A bean is **2.7 cm** long.

about ____ cm

A puppy weighs **6.4 kg**.

about ____ kg

A fun run is **9.5 km**.

about ____ km

Challenge

Leo says, "3.9 rounds to 3, because the whole number part is 3." Is Leo right? Explain.

I can...

Tick when you can.

- ☐ find the whole numbers either side of a decimal
- ☐ use the tenths digit to decide up or down
- ☐ round a decimal to the nearest whole number