

# Answers

## Week 2: Rounding

### What does it mean?

In year 7 you will recap on rounding to 10, 100 and 1000. You could be asked to round from a whole or decimal number and the same rules apply.

5 or above    round up  
4 or below    remain the same/round down

For example: Round 1239 to the nearest 1000.

**1 2 3 9** ← The blue number is the thousands, the red number (hundreds), tells us what to do.

**2** is below **5** so we round down.

1239 rounded to the nearest 1000 = 1000 (rounded down)



**Need more guidance?** <https://corbettmaths.com/2013/10/24/rounding-to-the-nearest-whole-number/>

### Task



Round the following whole numbers to the nearest 10, 100 and 1000.

a) **3541**

Nearest 10: 3540

Nearest 100: 3500

Nearest 1000: 4000

d) **8767**

Nearest 10: 8770

Nearest 100: 8800

Nearest 1000: 9000

b) **9435**

Nearest 10: 9440

Nearest 100: 9400

Nearest 1000: 9000

e) **5912**

Nearest 10: 5910

Nearest 100: 5900

Nearest 1000: 6000

c) **2112**

Nearest 10: 2110

Nearest 100: 2100

Nearest 1000: 2000

f) **4920**

Nearest 10: 4920

Nearest 100: 4900

Nearest 1000: 5000

## Problem Solving

Question 1: 51.26% of the people living in a town are female.  
Round this figure to one decimal place. *51.3%*

Question 2: Walter has worked out a calculation on a calculator  
Shown on the calculator is the answer.



- (a) Round the answer to one decimal place *5.4*  
(b) Round the answer to two decimal places *5.43*

Question 3: Daniel has been asked to round 1.725 to one decimal place.  
His answer is 172.5  
Explain Daniel's mistake. *Daniel has moved the decimal place instead of rounding*

Question 4: Nicole has rounded a number to one decimal place.  
Her answer is 9.2  
Write down 10 different possible numbers that she could have rounded.

Question 5: A chocolate bar contains 0.4715g of salt.  
Round this to two decimal places. *any value greater than or equal to 9.15 but less than 9.25*  
*for example 9.18 or 9.218*

Question 6: Dominic writes down two numbers, A and B.  
A and B have 2 decimal places.  
Dominic rounds A to 1 decimal place and calls his answer C.  
He rounds B to 1 decimal place and calls his answer D.  
Dominic says the difference between A and B cannot be the same as the  
difference between C and D.  
Show he is incorrect

*for example!*

$$\begin{array}{l} A = 8.33 \quad B = 5.13 \quad \text{difference is } 3.2 \\ C = 8.3 \quad D = 5.1 \quad \text{difference is } 3.2 \end{array}$$

### Weekly Challenge:

80 people take part in a race.

- The ratio of children to adults in the race is **2:3**.
- The mean time for the adults is **2 minutes 15 seconds**.
- The mean time for all 80 people is **3 minutes**.

Find the mean time for the children.

Now complete the online quiz:

<https://forms.office.com/r/pUc1bpMMnX>

*Put your answer here*