

I CAN find the mean (average) of a set of numbers



There are two very simple steps to find the mean (average) of a set of numbers:

1. Add them up (either mentally or using a calculator).
2. Divide the total by however many there are... **DONE!**

Here are some pretend spelling scores - let's find the mean (average) score:

5 8 5 4 2 6 5

1. Add them up = 35
2. Divide the total by how many there are (there are 7 scores, so divide 35 by 7) = 5

So the mean (average) is 5.

Try

Find the mean (average) of these sets of numbers (you may use a calculator):

9 8 9 11 3

5 3 6 5 7 4

5 7 3

2 2 1 3 2 1 2 4 1

5 7 8 8

6 3 7 4

80 29 29 42 28 50

14 10 6

Now make up 2 more similar questions of your own!

Test

Find the mean (average) of these sets of numbers (you may use a calculator):

1. What is the mean amount of flour used by a baker over a week?
Mon 8 kg, Tues 4 kg, Wed 5 kg, Thurs 9 kg, Fri 5 kg, Sat 7 kg, Sun 11 kg
- $$8 + 4 + 5 + 9 + 5 + 7 + 11 = 49$$
- $$49 \div 7 = 7 \text{ kg}$$

2. Average spelling test score of these 7 children: 5, 8, 5, 4, 2, 6, 5
- $$5 + 8 + 5 + 4 + 2 + 6 + 5 = 35$$
- $$35 \div 7 = 5$$

3. Mean darts score for 5 people: 9, 8, 9, 11, 13
- $$9 + 8 + 9 + 11 + 13 = 50$$
- $$50 \div 5 = 10$$

4. Average number of glasses of water Fred had over 4 days: 7, 3, 5, 9
- $$7 + 3 + 5 + 9 = 24$$
- $$24 \div 4 = 6 \text{ glasses}$$

5. Mean weight: 5g, 7g, 8g, 8g
- $$5 + 7 + 8 + 8 = 28$$
- $$28 \div 4 = 7\text{g}$$

6. What is the mean math test score for Sally over 5 days of tests?
Mon 17, Tues 18, Wed 16, Thurs 14, Fri 15
- $$17 + 18 + 16 + 14 + 15 = 80$$
- $$80 \div 5 = 16$$

7. What is the mean age of these 5 children attending a dance club?
Ages: 12, 10, 8, 10, 10 years
- $$12 + 10 + 8 + 10 + 10 = 50$$
- $$50 \div 5 = 10 \text{ years}$$

8. What is the mean number of apples sold over one week at the fruit store?
15, 12, 15, 3, 18, 6, 1
- $$15 + 12 + 15 + 3 + 18 + 6 + 1 = 70$$
- $$70 \div 7 = 10 \text{ apples}$$

Now re-read the title I CAN statement; decide whether you have 'Achieved' or need to revisit.



I KNOW that tenths are bigger than hundredths and can visualize them in a hundred square



This concept confuses many people!

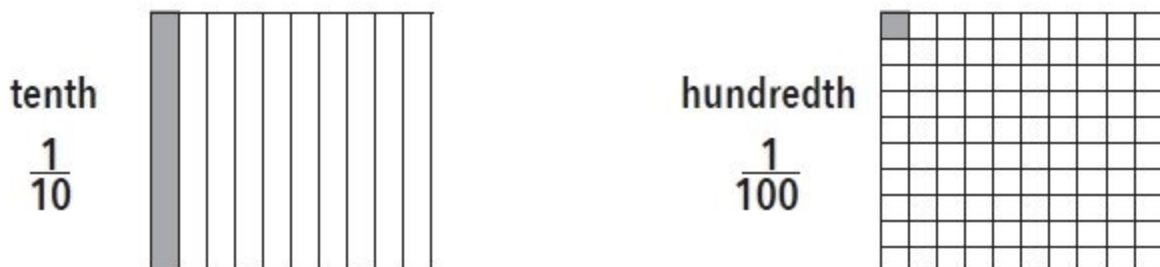
Which is bigger - a tenth or a hundredth? What do you think?

Picture a pizza cut up into **tenths**: ten slices / parts / pieces.

Picture a pizza cut up into **hundredths**: a hundred slices / parts / pieces.

Does that help your thinking? Which fraction of pizza would you choose - a tenth or a hundredth?

Now look at these equally-sized grids. One shows a **tenth** shaded and the other shows a **hundredth** shaded:



Now visualize these three yummy examples:

- Picture a slab of chocolate. Would you like a tenth or a hundredth? A **tenth** of a bar of chocolate is bigger than a **hundredth** of a bar of chocolate!
- $\frac{5}{10}$ of a pizza (this would be half) is bigger than $\frac{5}{100}$ of a pizza.
- $\frac{9}{10}$ of a bar of chocolate (that is almost all of it) is bigger than $\frac{9}{100}$ of a bar of chocolate.

Try

Using your knowledge of tenths and hundredths place value, decide which is the **BIGGER** of these decimal fractions:

0.04	or	0.4	1.7	or	1.07
3.02	or	3.2	10.5	or	10.05
2.30	or	2.03	1.05	or	1.50
1.09	or	1.90	2.40	or	2.04

Now make up 2 more similar questions of your own!

Test

Using your knowledge of tenths and hundredths place value, decide which is the BIGGER of these decimal fractions:

1. 0.01 or 0.1 0.1

2. 8.04 or 8.4 8.4

3. 7.02 or 7.20 7.20

4. 4.50 or 4.5 they are same

5. 2.7 or 2.07 2.7

6. 3.80 or 3.08 3.80

7. 4.600 or 4.6 they are same

8. 3.01 or 3.1 3.1

Now re-read the title I KNOW statement; decide whether you have 'Achieved' or need to revisit.