

## Maths— Adding decimals using column addition.

Today we're going to look at adding decimals using column addition. When we add with column addition it's important we lay out our sum correctly with the place values lined up properly. The same goes for adding decimals. It doesn't matter how many decimals there are in the number so long as you keep the decimal points lined up when you lay out your column addition sum!

You can use squared paper or blank paper or work online—just make sure the decimals of each number are lined up.

$$\begin{array}{r} 7.1 \\ 32.8 \\ \hline 4.263 + \\ \hline 37.063 \end{array}$$
$$\begin{array}{r} 324.25 \\ 27.4 + \\ \hline 358.75 \end{array}$$

Keeping the decimal point lined up forces you to keep your place values lined up which means you don't make any silly little mistakes! Don't forget to carry, just like normal column addition.



**Remember! Keep  
your decimal  
points lined up!**

You have a choice of 3 tasks and a "Super C" challenge...

Complete one of the tasks first and then you can have a go at Super C as well if you want to.

### A

Copy and complete.

$$\begin{array}{r} 1 \quad 546.1 \\ + \quad 23.6 \\ \hline \end{array} \quad \begin{array}{r} 7 \quad 56.77 \\ + \quad 23.46 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 192.7 \\ + \quad 56.8 \\ \hline \end{array} \quad \begin{array}{r} 8 \quad 71.83 \\ + \quad 27.18 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 432.9 \\ + \quad 126.3 \\ \hline \end{array} \quad \begin{array}{r} 9 \quad 3.947 \\ + \quad 1.759 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 764.8 \\ + \quad 219.2 \\ \hline \end{array} \quad \begin{array}{r} 10 \quad 6.574 \\ + \quad 4.957 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 35.63 \\ + \quad 34.39 \\ \hline \end{array} \quad \begin{array}{r} 11 \quad 8.946 \\ + \quad 1.645 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 28.56 \\ + \quad 15.48 \\ \hline \end{array} \quad \begin{array}{r} 12 \quad 4.758 \\ + \quad 3.369 \\ \hline \end{array}$$

- 13 Fiona buys a dress for £86.49 and shoes for £27.75. How much does she spend altogether?

- 14 Mary's car has a mileage of 926.5 miles at the start of May. During the month she drives 487.6 miles. What is the car's mileage at the end of May?

### B

Set out as in the examples.

$$1 \quad 35.9 + 8.314$$

$$2 \quad 4.275 + 146.8$$

$$3 \quad 23.76 + 4.645$$

$$4 \quad 658.7 + 61.59$$

$$5 \quad 19.943 + 26.37$$

$$6 \quad 159.6 + 97.82$$

$$7 \quad 6.744 + 783.9$$

$$8 \quad 579.63 + 8.157$$

$$9 \quad 498.5 + 92.91$$

$$10 \quad 96.475 + 43.86$$

$$11 \quad 79.359 + 555.7$$

$$12 \quad 134.794 + 25.78$$

- 13 In an endurance event competitors cycle 52.38 km and run 18.675 km. What is the total length of the course?

- 14 A mineshaft is 638.7 m deep. The miners drill down a further 47.55 m. How deep is the shaft now?



### C

Set out correctly and work out.

$$1 \quad \begin{array}{r} 297.56 \\ 17.9 \\ + \quad 28.643 \\ \hline \end{array} \quad \begin{array}{r} 6 \quad 8.764 \\ 41.97 \\ + \quad 157.8 \\ \hline \end{array}$$

$$2 \quad \begin{array}{r} 14.238 \\ 268.6 \\ + \quad 5.948 \\ \hline \end{array} \quad \begin{array}{r} 7 \quad 129.75 \\ 0.385 \\ + \quad 36.59 \\ \hline \end{array}$$

$$3 \quad \begin{array}{r} 17.57 \\ 125.8 \\ + \quad 2.944 \\ \hline \end{array} \quad \begin{array}{r} 8 \quad 186.3 \\ 54.842 \\ + \quad 348.47 \\ \hline \end{array}$$

$$4 \quad \begin{array}{r} 148.66 \\ 26.9 \\ + \quad 9.783 \\ \hline \end{array} \quad \begin{array}{r} 9 \quad 231.36 \\ 89.677 \\ + \quad 4.599 \\ \hline \end{array}$$

$$5 \quad \begin{array}{r} 24.638 \\ 3.247 \\ + \quad 616.57 \\ \hline \end{array} \quad \begin{array}{r} 10 \quad 27.745 \\ 6.558 \\ + \quad 318.96 \\ \hline \end{array}$$

- 11 Grant buys 3.428 kg of potatoes, 1.29 kg of carrots and 0.375 kg of onions. What is the total weight of his shopping?

- 12 A dairy produces 87.5 litres of milk on Monday, 117.225 litres on Tuesday and 93.75 litres on Wednesday. How much milk is produced in the three days altogether?

## Super C

### C

- 1 Seven refrigerators are loaded onto a lorry. Each weighs 78.42 kg. What is the total weight of the load?
- 2 A saucepan holds 2.37 litres of water. 568 ml is poured away. How much water is left?
- 3 At 8 am the shadow of a tree is 50.4 m long. By midday it is a quarter as long. How long is the shadow at midday?
- 4 A dishwasher uses 238.5 litres of water in six washes. How much does it use in each wash?
- 5 A sheep weighs 26.32 kg before shearing. 1465 g of wool is removed. How much does the sheep weigh now?
- 6 Lloyd throws the javelin 67.5 metres. The winning throw is 6 per cent longer. What is the winning throw?

