22.4.21 Decimals

Learning Objective:

We are learning to add and subtract decimals with the same number of decimal places.

I will be successful if:

- I can exchange numbers to help with subtraction.
- I can add and subtract decimals using visual representations and written column method.
- I can use estimation to check my answer.

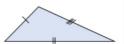
Key Vocabulary

place value
decimal places
exchanging
whole number
ones
tenths
hundredths
thousandths
value
digit

Flashback 4

Year 5 | Week 2 | Day 4

1) Add 3.27 to 4.82



- 2) What is 0.16 more than 0.59?
- 3) What are the missing numbers?

$$\frac{7}{10} = \frac{\boxed{}}{100} = \frac{700}{\boxed{}}$$

4) Which angles are acute angles?



Challenge

Fill in the missing symbols (<, > or =).

$$\frac{1}{10}$$
 0.75

$$0.4 \, \Box \, \frac{1}{4}$$

$$0.5 \frac{1}{5}$$

$$\frac{3}{4}$$
 0.75

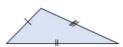
$$0.8 \, \Box \, \frac{4}{5}$$

$$\frac{1}{2}$$
 0.2

Flashback 4

Year 5 | Week 2 | Day 4

- I) Add 3.27 to 4.82
- P_{0.8}



- 2) What is 0.16 more than 0.59? 0.75
- 3) What are the missing numbers?

$$\frac{7}{10} = \frac{}{100} = \frac{700}{}$$

70, 1000

4) Which angles are acute angles?

 87° , 27° and 1°

87°

27° 90°

۱°



Challenge

Fill in the missing symbols (<, > or =).

 $\frac{1}{10}$ 0.75

 $0.4 \frac{1}{4}$

 $0.5 \frac{1}{5}$

 $\frac{3}{4}$ $\frac{1}{2}$ 0.75

 $0.8 \frac{4}{5}$

 $\frac{1}{2}$ 0.2

Which methods have you learn to help you add decimals with the same number of decimal places?

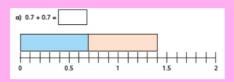
Column method



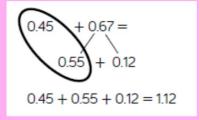
Place value grid



Number line



Flexible partitioning to help with mental addition



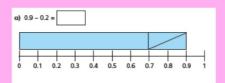
Use one of the methods from the previous slide to help you solve these calculations.

Which methods have you learn to help you subtract decimals with the same number of decimal places?

Column method



Number line



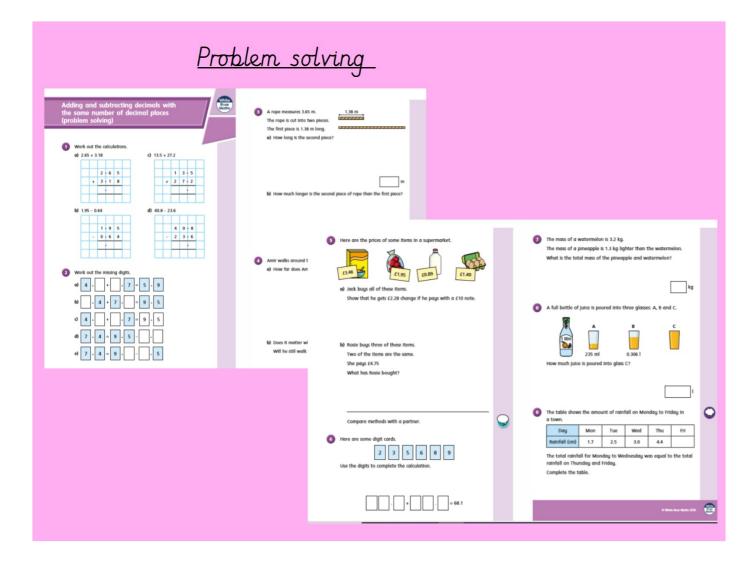
Place value grid



Mental subtraction

8.64 - 2.49 = 6.15

Use one of the methods from the previous slide to help you solve these calculations.



Challenge

Create your own reasoning problem.

You may create a true or false problem, or a question where you have to prove if they are right or wrong, or you may choose to create a problem similar to one from your work today.