20.4.21 Decimals

Learning Objective:

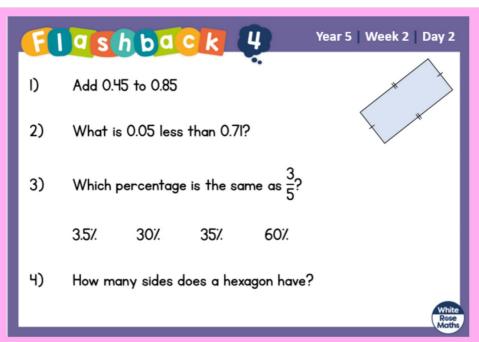
We are learning to add decimals with the same number of decimal places

I will be successful if:

- I can add numbers greater than one.
- I can use place value grids to explain my method.
- I can line up the decimal points when using the column method.

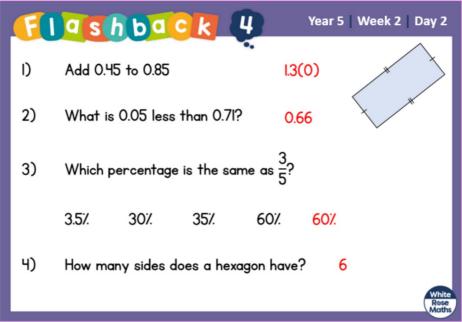
Key Vocabulary

place value
decimal places
ones
tenths
hundredths
thousandths
value
digit
partition



<u>Challenge</u> - Write these measurements as decimals.

- 5) 3 1/4 litres
- 6) 10 and 1/2 cm
- 7) 4 4/5m
- 8) 12 3/4 kg



<u>Challenge</u> - Write these measurements as decimals.

- 5) 3 1/4 litres = 3.25l
- 6) 10 and 1/2 cm = 10.5cm
- 7) 4 4/5m = 4.8m
- 8) 12 3/4 kg = 12.75kg

Use the place value grid to help you add these decimals

Ones	Tenths	Hundredths
0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.51 0.51
0 0	0.1	0.01 0.01 0.01

Use the column method to solve these additions.

What happens when the total of a column is 10 or more?

Ron goes to the shops. He buys 3 items. What is the most he could pay? What is the least he could pay?



4.45



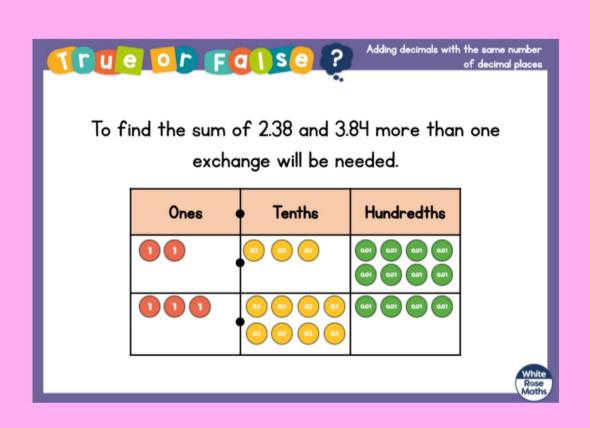
£4.45 £5.59

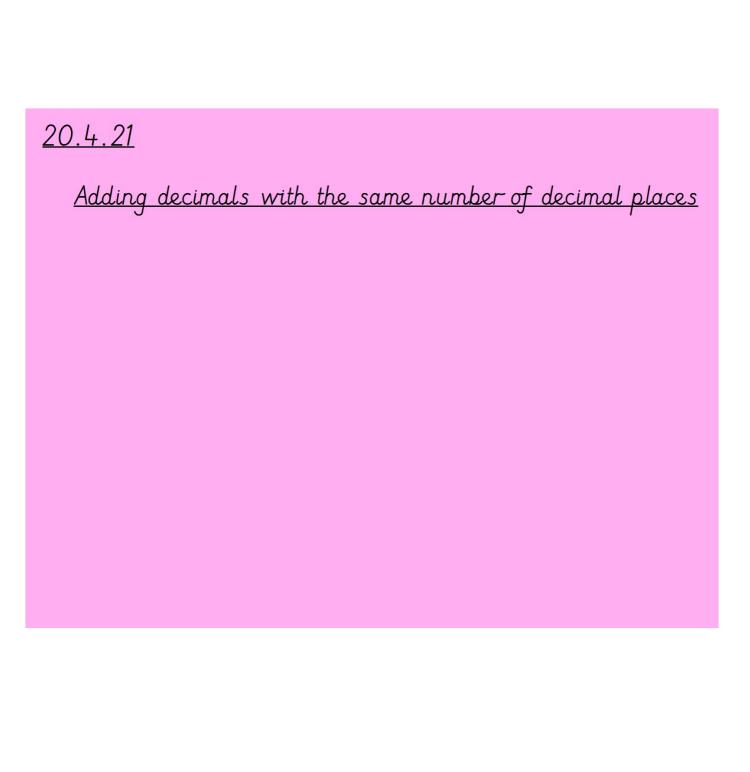


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Reasoning challenges

$$+0.2$$

$$3.2 + 2.8 = 3 + 3$$

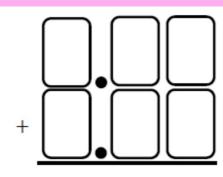
$$-0.2$$

$$+0.18$$

$$3.18 + 2.82 = 3 + 3$$

$$-0.18$$

Using these strategies, can you find more number sentences which have the same total as 3 + 3



Using the digits 0 – 9 only once in each of the spaces above, what is:

- The largest sum possible
- The smallest sum possible

Is there more than one way of creating each total?