Bronze

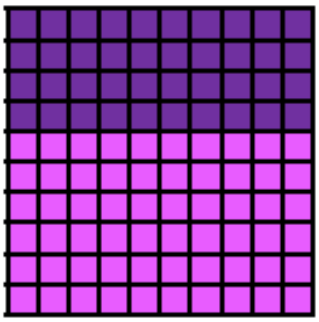
1a. Look at the place value chart.

Ones	Tenths	Hundredths

If we add 0.7 which columns would change? What would the new digits be?

VF

2a. Use the hundred square to create a subtraction and addition calculation with decimal numbers.



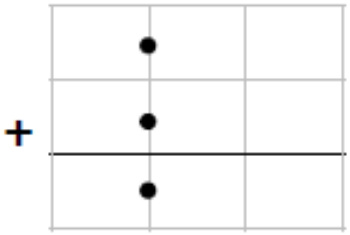
VF

3a. Use the bar models to represent and complete the following calculation:

0.01 + ☐ = 1

VF

4a. True or false? 0.62 + 0.48 = 1



VF

5a. Fill in the blanks.

0.81 + ☐ = 1

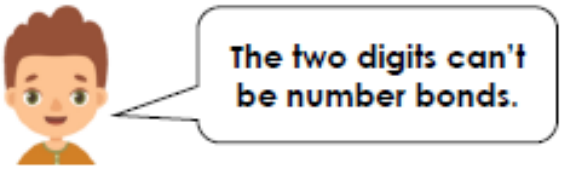
0.13 + ☐ = 1

VF

1b. Look at the calculation below.

0.7☐ + 0.2☐ = 1

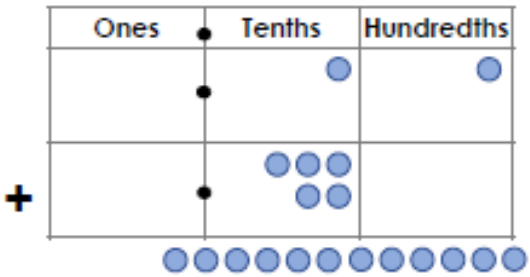
Nick says,



Is Nick correct? Explain your answer.

R

2b. Use the counters to create a complement to 1. Some counters have been placed for you.



Place counters into any column to indicate their value. Use all the counters given.

PS

3b. Find the odd one out.

0.11 + 0.89

0.82 + 0.82

0.11 + 0.99

Explain your answer.

Silver

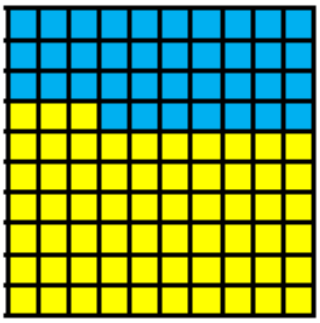
6a. Look at the place value chart.

Ones	Tenths	Hundredths	Thousandths
			

If we add 0.09 which columns would change? What would the new digits be?

VF

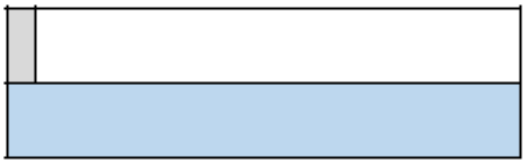
7a. Use the hundred square to create a subtraction and addition calculation with decimal numbers.



VF

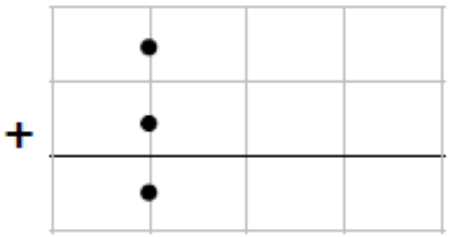
8a. Use the bar models to represent and complete the following calculation:

0.014 + ☐ = 1



VF

9a. True or false? 0.709 + 0.391 = 1



VF

10a. Fill in the blanks.

0.067 + ☐ = 1

0.284 + ☐ = 1

VF

4b. Look at the calculation below.

0.6 7 ☐ + 0.3 2 ☐ = 1

Gareth says,

The two digits will always be even.

Is Gareth correct? Explain your answer.

R

5b. Use the counters to create a complement to 1. Some counters have been placed for you.

	Ones	Tenths	Hundredths	Thousandths
			●●● ●●●	
+				

●●●●●●●●●●●●

Place counters into any column to indicate their value. Use all the counters given.

PS

6b. Find the odd one out.

0.433 + 0.567

0.59 + 0.41

0.023 + 0.087

0.307 + 0.693

Explain your answer.

Gold

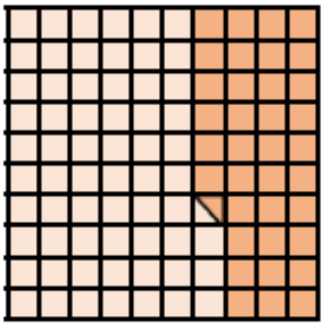
11a. Look at the place value chart.

Ones	Tenths	Hundredths	Thousandths
			

If we add 0.099 which columns would change? What would the new digits be?

VF

12a. Use the hundred square to create a subtraction and addition calculation with decimal numbers.



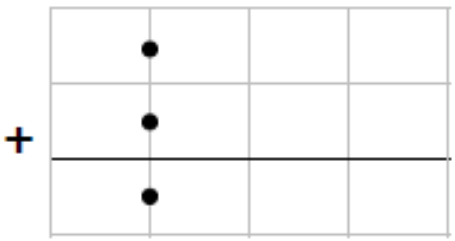
VF

13a. What needs to be added to the following number to make 1?

zero and eighty-six thousandths

VF

14a. True or false?
No zeros and seven tenths and seventy-nine thousandths + 0.231 = 1



7b. Look at the calculation below.

0.9 9 ☐ + 0.0 0 ☐ = 1

Anaya says,

The digits will be < 0 and > 9.

Is Anaya correct? Explain your answer.

R

8b. Use the counters to create a complement to 1. Some counters have been placed for you.

	Ones	Tenths	Hundredths	Thousandths
+				

Use as many counters as you need.

PS

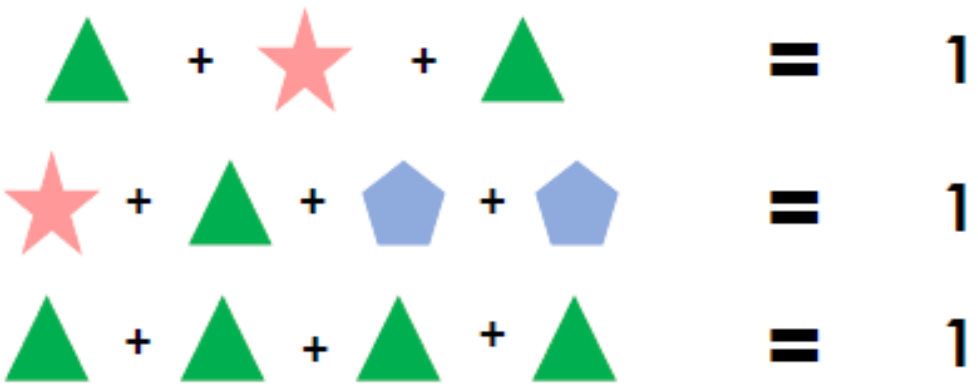
9b. Find the odd one out.

0.9 + 0.09 + 0.009
0.123 + 0.987 + 0.013
0.468 + 0.222 + 0.42
0.39 + 0.5 + 0.12
0.3 + 0.003 + 0.03
0.903 + 0.007 + 0.09

Explain your answer.

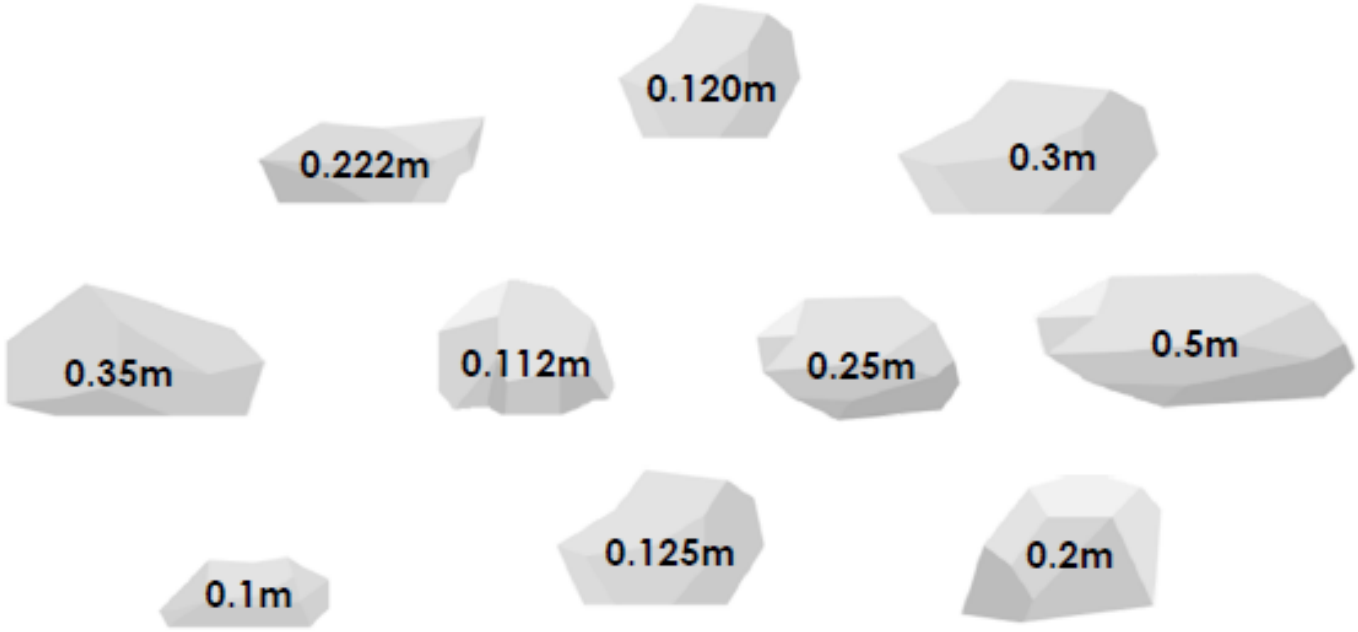
Challenge

1. Work out the value of the shapes below. Write each answer to 3dp.



What decimals could the shapes below represent? How many answers can you find?

2. Use a combination of the rocks below to build a dry stone wall which measures exactly 1m long. You may use each rock more than once.



How many different combinations can you find?