Bronze

1a. The ones and the tenths columns would change. The new digits would be 1 in the ones and 0 in the tenths.

$$2a. 0.4 + 0.6 = 1$$

$$1 - 0.4 = 0.6$$
 or $1 - 0.6 = 0.4$

0.9		0.99
		1

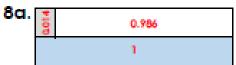
- 4a. False because 0.62 + 0.48 = 1.1
- 5a. 0.19 0.87
- 1b. Nick is incorrect. The 2 digits must be number bonds to ten.

2b.	Ones	Tenths	Hundredths
	0	Sum of 9	Sum of 10

3b. 0.11 + 0.89 is the odd one out because it is a complement to 1; the others aren't.

Silver

6a. The hundredths and tenths columns would change. The new digits would be 1 in the hundredths (0.01) and 5 in the tenths (0.5)



- 9a. False because 0.709 + 0.391 = 1.1
- 10a, 0,933 0.714
- 4b. Gareth is incorrect. The digits will always either be both odd or both even as they will be number bonds to 10.

5b.	Ones	Tenths	Hundredths	Thousandths
	0	Sum of 9	Sum of 10	0

6b. 0.023 + 0.087 is the odd one out because it is not a complement to 1; the others are.

Gold

11a. The tenths, and the thousandths columns would change. The new digits would be no digit in the thousandths and 6 in the tenths.

12a. 0.635 + 0.365 = 1 1 - 0.635 = 0.365 or 1 - 0.365 = 0.635 13a. 0.914

14a, False because 0.779 + 0.231 = 1.01

7b. Anaya is incorrect. The digits are all greater than 0, however they are less than or equal to 9 not greater than or equal to 9.

8b.	Ones	Tenths	Hundredths	Thousandths
	0	Sum of 10	0	0

9b. 0.903 + 0.007 + 0.09 is the odd one out because it is a complement to 1; the others aren't.

<u>Challenge</u>

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



$$\star$$
 = 0.500

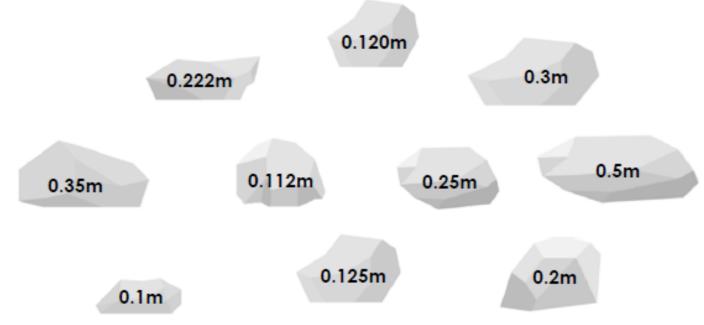
What decimals could the shapes below represent? How many answers can you find?

Various possible answers, for example:





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?

Various possible answers, for example: 0.222m + 0.222m + 0.222m + 0.112m = 1m

DP