Bronze

1a. Represent this addition on the place value chart 2.17 + 0.5
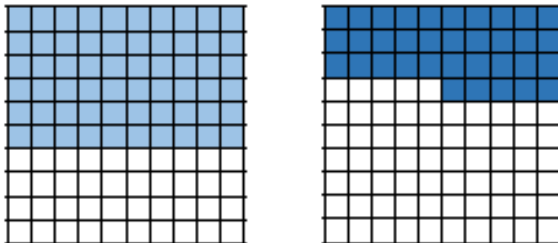
ones	tenths	hundredths	thousandths
	●		
+	●		

Now calculate their sum.

☆ VF

2a. Look at the hundred square below. Coloured squares represent 0.01.

Convert to a column addition and complete the calculation.

	●	
+	●	
	●	

☆ VF

3a. Without calculating the answer which estimate seems most sensible?

$$2.01 + 1.93$$

3	4	2

☆ VF

4a. Calculate the following and order the sum of the calculations from smallest to largest.

A. 0.29 + 2.09

B. 0.32 + 1.9

C. 2.1 + 1.22

1b. Sheldon tees off for the first hole and hits his golf ball 4.9 metres. When he finds his ball, he then hits it a further 7.05 metres.

How far did he hit his ball in his first two strokes?

☆ PS

2b. Find the missing digits in the calculation below.

☆ PS

3b. Marcus says,

> When adding decimals it doesn't matter if you miss a zero out.

Is he correct?
Explain your answer

Silver

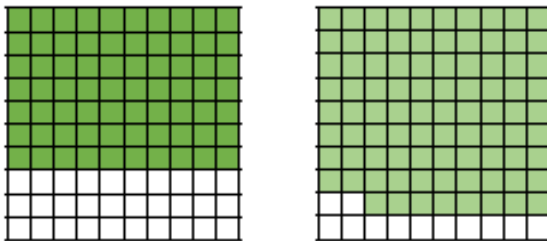**5a.** Represent this addition on the place value chart 2.67 + 1.5

ones	tenths	hundredths	thousandths
•			
+ •			

Now calculate their sum.

☆ VF

6a. Look at the hundred square below. Coloured squares represent 0.01.

Convert to a column addition and complete the calculation.

	•	
+	•	
	•	

☆ VF

7a. Without calculating the answer which estimate seems most sensible?

$$2.01 + 1.93$$

4.2	4.12	4

☆ VF

8a. Calculate the following and order the sum of the calculations from smallest to largest.

- A.   3.1 + 6.89
- B.   4.91 + 5.231
- C.   2.8 + 8.12
- D.   1.7 + 9.201

☆ VF

4b. On average an immature oak tree grows 0.069m in winter and 1.83m in summer.

How much does the tree grow in a full year?

☆ PS

5b. Find the missing digits in the calculation below.

		•		
+	3_1	•	7_1	2
	4	•	7	1	9

☆ PS

6b. Natalya says,

If you add a number with 3 decimal places to one with 2 decimal places your answer will always have 3 decimal places.

Is she correct?
Explain your answer

Gold

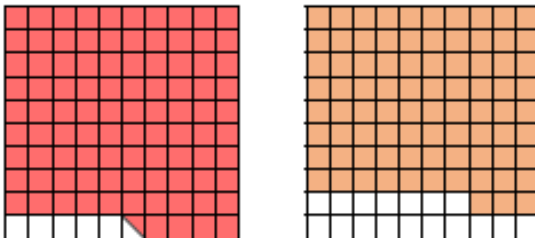**9a.** Represent this addition on the place value chart 5.87 + 3.3

ones	tenths	hundredths	thousandths
	●		
＋	●		

Now calculate their sum.

VF

10a. Look at the hundred square below. Coloured squares represent 0.01.

Convert to a column addition and complete the calculation.

		●		
＋		●		
		●		

VF

11a. Without calculating the answer which estimate seems most sensible?

6.901 + 7.07

| 13.9 | 12 | 14 |

VF

12a. Calculate the following and order the sum of the calculations from smallest to largest.

A. 7.39 + 5.731

B. 1.93 + 9.015

C. 3.2 + 8.781

D. 5.9 + 6.189

VF

7b. Lexie is making a mixed juice drink, she adds 1.893ml of orange and 5.79 ml of blackcurrant juice.

How much will her jug need to be able to hold?

PS

8b. Find the missing digits in the calculation below.

$$6 \bullet 3 \quad \text{✸} \quad 5$$
$$+ \quad 4_1 \bullet \text{✸} \quad 6_1 \quad \text{✸}$$
$$1 \quad \text{✸} \bullet 2 \quad 4 \quad 2$$
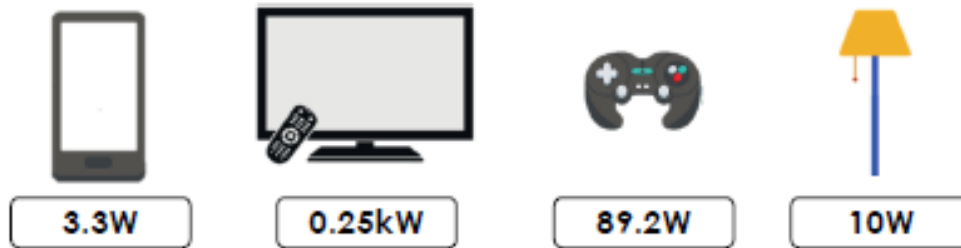
PS

9b. Joanna says,

> If you have an empty column, you need to use a place holder.

Is she correct?
Explain your answer

VF

Challenge

1. The pictures below show how much electricity the electronic devices use per hour.

| 3.3W | 0.25kW | 89.2W | 10W |

Thomas turns on the light and TV in his bedroom to play on his games console for two hours. He turns off the light after half an hour so that his mum doesn't know that he's playing.

Thomas also plugs in his tablet to charge it which takes four hours.

If 1 kilowatt (kW) = 1,000 watts (W), does Thomas use over 650W of electricity in total? Give your answer in W.