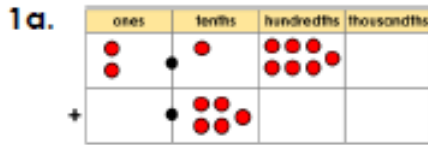


## Bronze



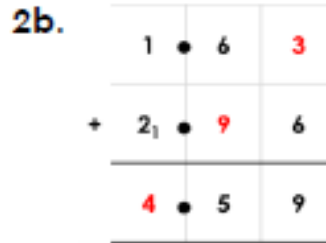
$$2.17 + 0.5 = 2.67$$

2a.  $0.6 + 0.35 = 0.95$

3a. 4

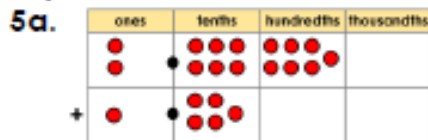
4a. A = 2.38, B = 2.22, C = 3.32. Order: B, A, C.

1b. 11.95 metres



3b. Marcus is wrong, the zeros are needed to make sure you don't write a number in the wrong value column, they are place holders.

## Silver



$$2.67 + 1.5 = 4.17$$

6a.  $0.7 + 0.88 = 1.58$

7a. 4

8a. A = 9.99, B = 10.141, C = 10.92, D = 10.901. Order: A, B, D, C.

4b. 1.899 metres



6b. Natalya is incorrect. The number of decimal places in an addition don't correlate with the number of decimal places in the answer e.g.  $0.75 + 0.25 = 1$ .

## Gold



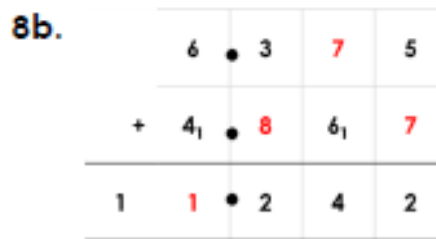
$$5.87 + 3.3 = 9.17$$

10a.  $0.945 + 0.83 = 1.775$

11a. 14

12a. A = 13.121, B = 10.945, C = 11.981, D = 12.089. Order: B, C, D, A.

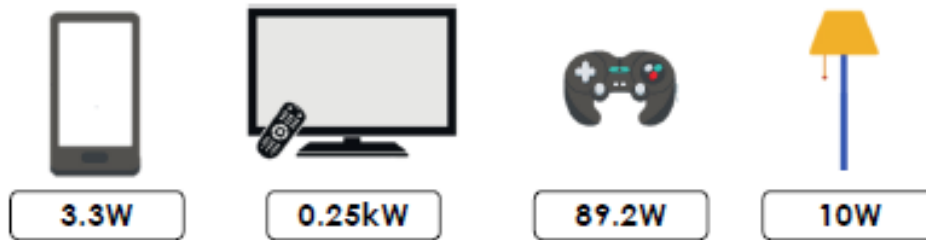
7b. 7.683 ml



9b. Joanna is correct. If you miss a place holder you might change the value of other digits.

## Challenge

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



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.

**Yes, Thomas uses 696.6w of electricity in total. The light uses 5W, the TV uses 500W (250W + 250W), the console uses 178.4W (89.2W + 89.2W) and the tablet uses 13.2W (3.3W + 3.3W + 3.3W + 3.3W).**