## **Bronze**

1b. No - 5cm needed

2b.

120	1,200
210	2,100
950	9,500

Divided by 10 instead of multiplying by 10.

1a. 1,000m

2a. False; 40cm > 4mm

6a. False: 46km > 4,600m

3a. >

4a. 60cm

5a. 2.5m

3b. Cole is correct. 1cm x 100 = 100cm = 1m

<u>Silver</u>

4b. Yes – 0.1m spare

5b.

0.9	90	900
1.3	130	1,300
5.08	508	5,080

Multiplied by 10 instead of 100 Multiplied by 100 instead of 10

Multiplied by 10 instead of 100

7a. < 8a. 96cm

6b. Cassie is correct. 100cm = 1m. 10cm = 0.1m

<u>Gold</u>

7b. Yes. 1.5cm spare

8b.

10	1,000	10,000
8.02	802	8,020
6.04	604	6,040
0.21	21	210
0.01	1	10

Multiplied by 1,000 instead of 100

Multiplied by 10 instead of 100 Multiplied by 100 instead of 10 Multiplied by 100 instead of 10

9a. 1,050mm

10a. False; 0.45km < 450,000m

11a. <, <

12a. 10,000cm

9b. Orion is correct. You could convert metres to millimetres in two steps. For example; if you had 8.32m it would equal 832cm which in turn equals 8,320mm (multiplying by 100 to convert to cm then 10 to convert to mm).

## Challenge

Amanda is displaying toys in her shop on a shelf display which is 2.48m wide. How
could she arrange any of the toys below to fill the shelf, using only one of each toy?
 There is a minimum gap of 20mm at both edges of the shelf and between each toy.

Investigate different combinations of toys that can be displayed on the shelf.

Various possible answers, for example: This combination measures exactly 2.48m, but other answers may not be exact but will be no less than 2.4m.

