Tenths on a number line

1 Fill in the decimal numbers on each number line.

a)

0   **0·2**   **0·5**   **0·9**   1

b)

7   **7·3**   **7·6**   8

c)

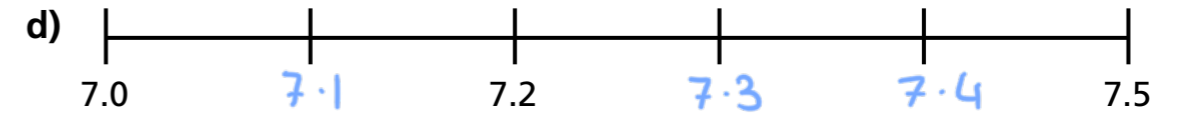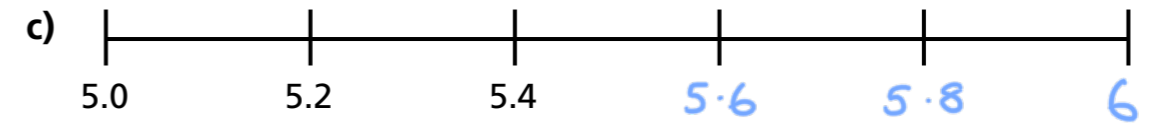10   **10·1**   **10·5**   **10·8**   11

2 Complete the number lines.

a)

1.0   1.1   1.2   **1·3**   **1·4**   **1·5**

b)

2.6   2.7   2.8   **2·9**   **3**   **3·1**

c)

5.0   5.2   5.4   **5·6**   **5·8**   **6**

d)

7.0   **7·1**   7.2   **7·3**   **7·4**   7.5
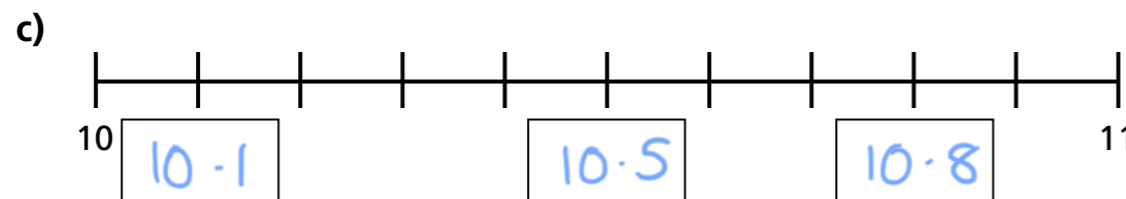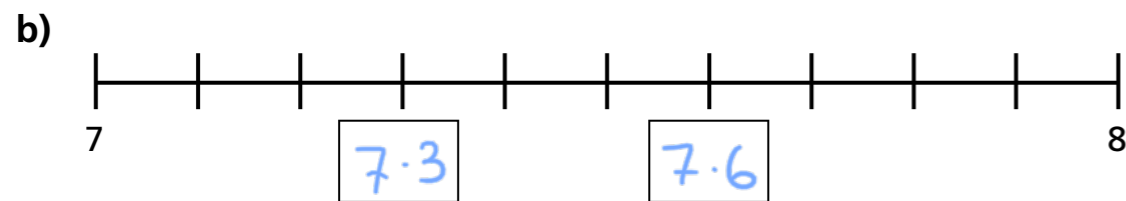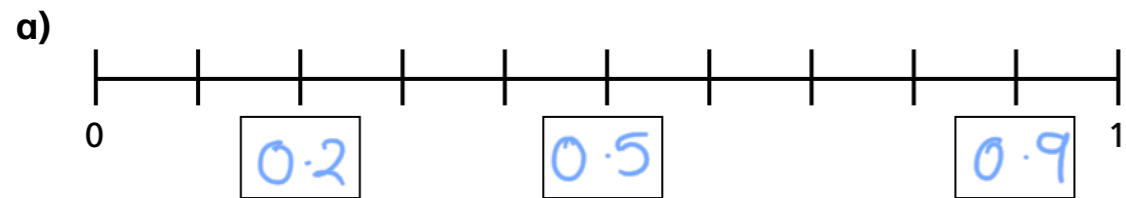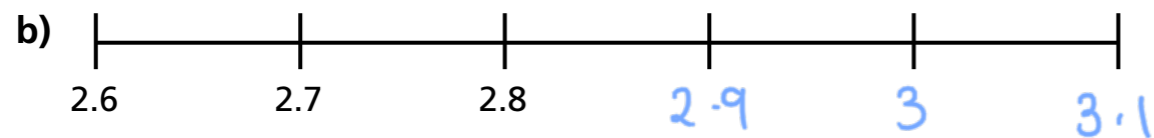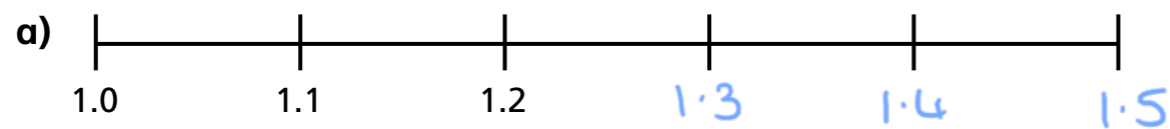
3 Here is a ruler with centimetres as whole numbers and millimetres as tenths.
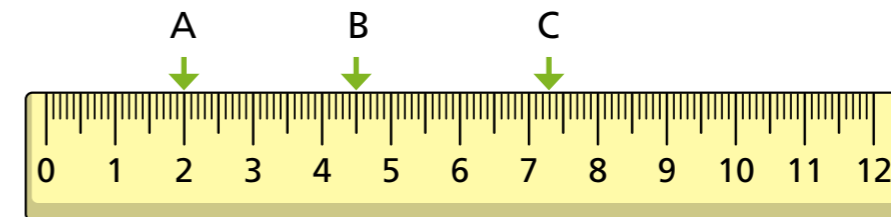
Complete the sentences about points A, B and C.

A   B   C

0 1 2 3 4 5 6 7 8 9 10 11 12

Point A is **2** cm along the ruler.

Point B is **4** cm and **5** mm along the ruler.

As a decimal it is **4·5** cm.

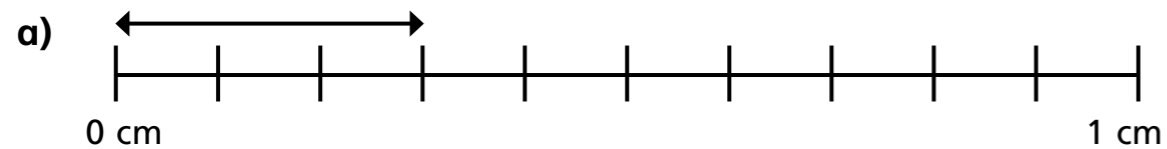Point C is **7** cm and **3** mm along the ruler.

As a decimal it is **7·3** cm.

4 Complete the number lines.

a)

4.1   4.4   **4·7**   **5**   **5·3**   **5·6**

b)

5.1   **5·3**   5.5   **5·7**   **5·9**   **6·1**

c)

7.9   **8·4**   8.9   **9·4**   **9·9**   10.4

d)

2   **2·4**   **2·8**   **3·2**   **3·6**   4
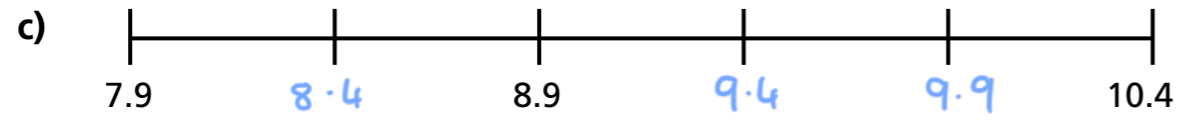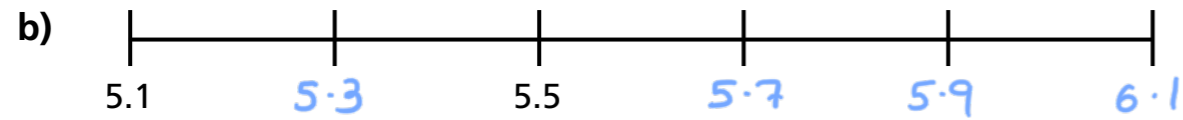
5   How long is each line?

a)

0 cm   1 cm

The line is $\boxed{0·3}$ cm long.

b)

0 cm   1 cm
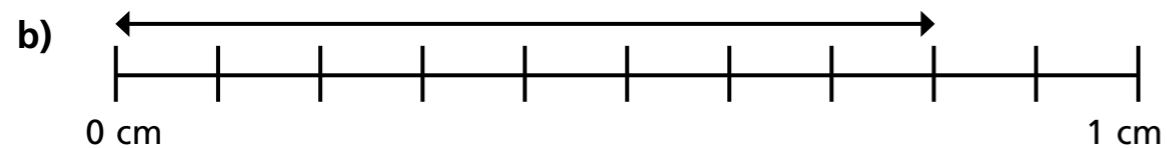
The line is $\boxed{0·8}$ cm long.

c)
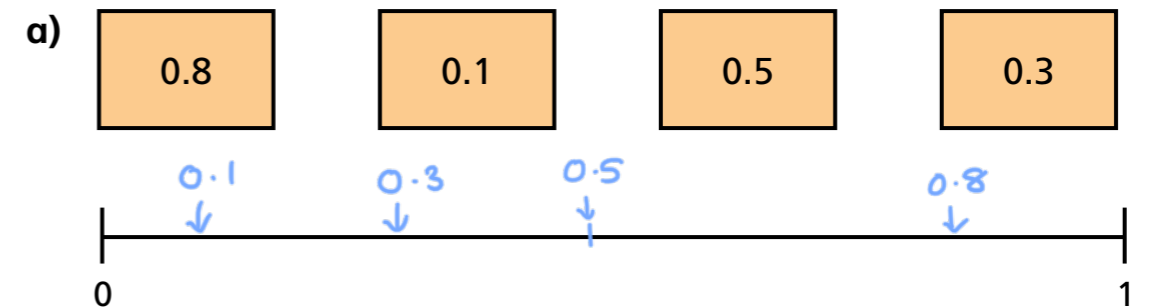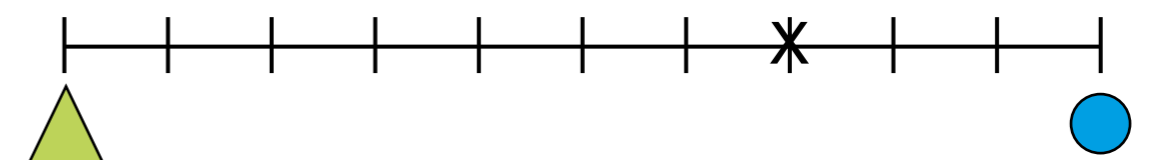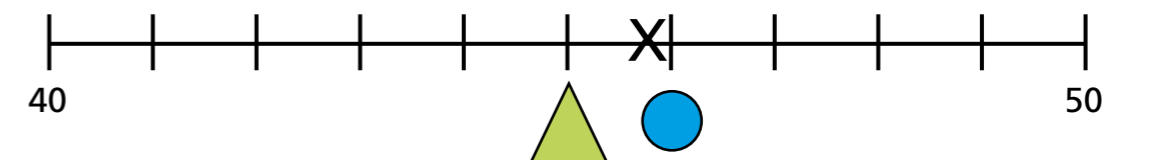
0 cm   1 cm
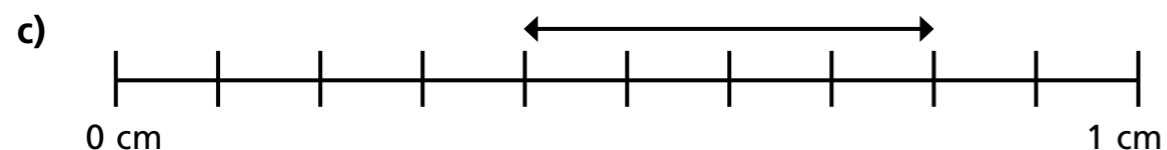
The line is $\boxed{0·4}$ cm long.

How would your answers have been different if given in millimetres?

6   Draw arrows to estimate the position of the numbers on the number line.

a)

| 0.8 | | 0.1 | | 0.5 | | 0.3 |

0·1   **0·3**   **0·5**   **0·8**

0   1

b)

| 4.9 | 3.1 | 4.5 | 3.6 | 4.0 |

3·1   **3·6**   **4·0**   **4·5**   **4·9**

3   5
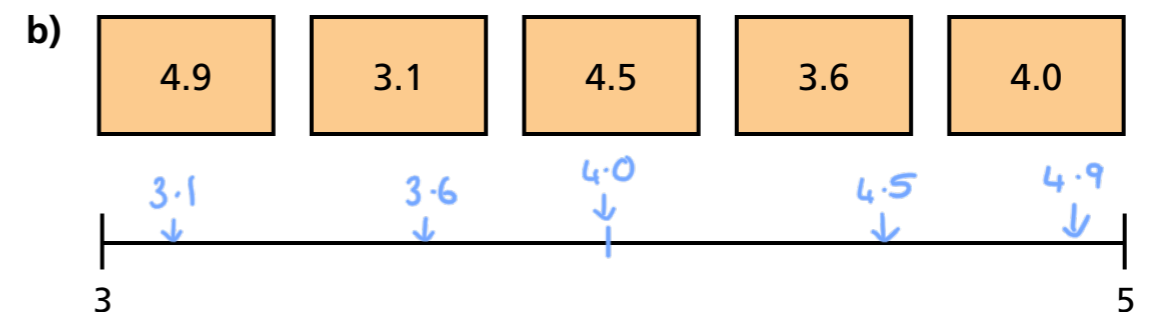
7   The triangle, circle and cross have the same value on both lines.

Work out the values.

40   ✗   50

40   ✳

△ = $\boxed{45}$ ⬤ = $\boxed{46}$ ✗ = $\boxed{45·7}$

Create your own problem like this for a friend.