Fraction of an amount – find the whole

1 Complete the calculations.

18

?

$\frac{1}{3}$ of 18 = ☐

?
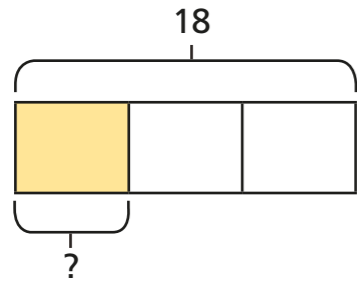
18
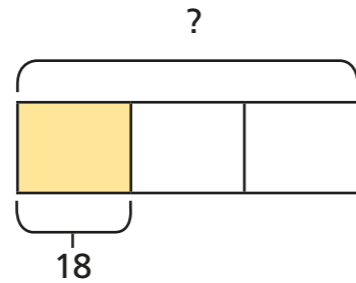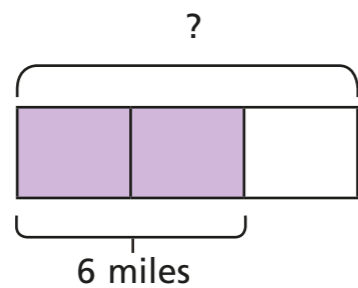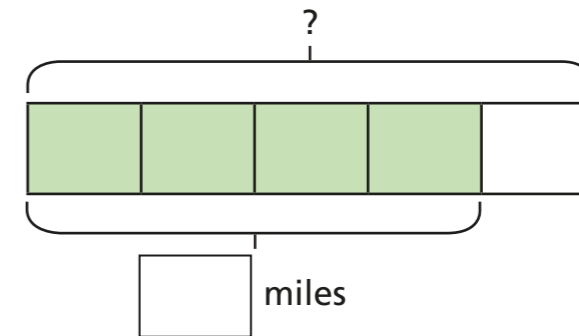
$\frac{1}{3}$ of ☐ = 18

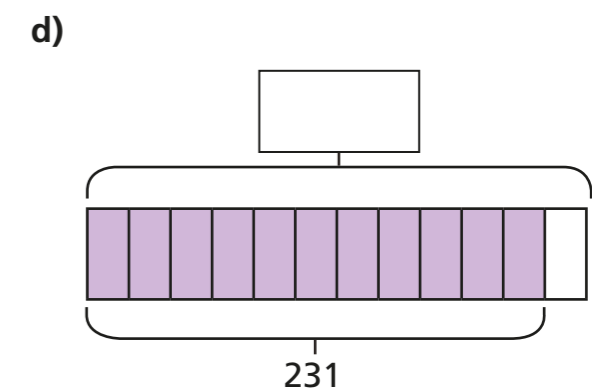What is the same about the calculations?

What is different?

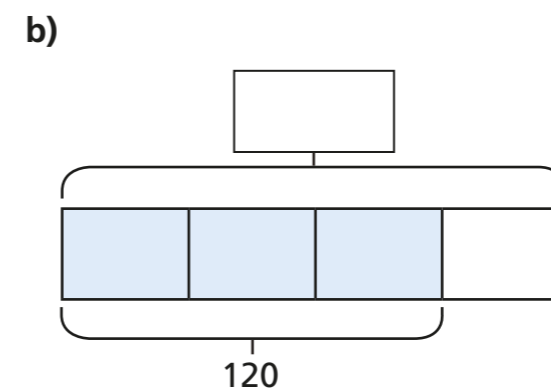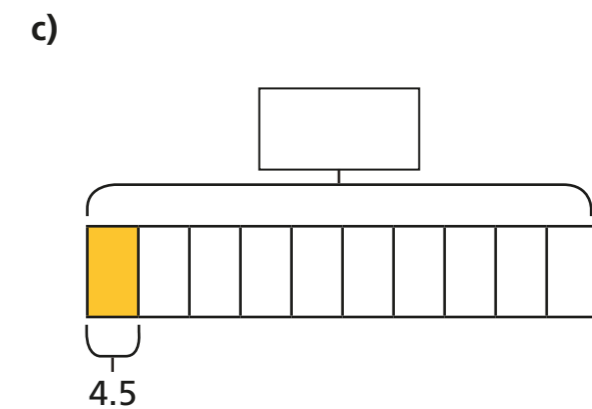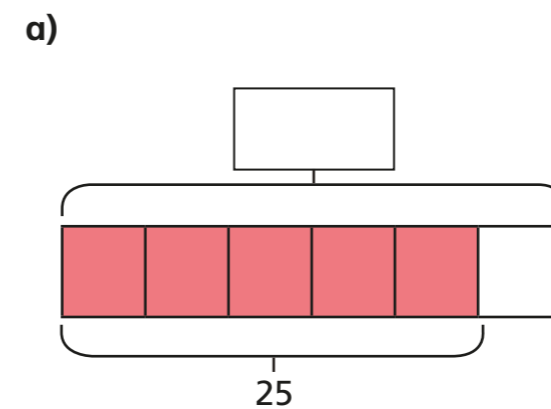**2** **a)** Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.

How far is it in total from his house to work?

?

6 miles

☐

b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

She cycled 16 miles.

How far is it in total from her house to work?

?

☐ miles

☐

3 Calculate the missing wholes.

a)

☐

25

c)

☐

4.5

b)

☐

120

d)

☐

231

4 Fill in the missing information.

a) $\frac{1}{3}$ of [ ] = 20

b) $80 = \frac{4}{10}$ of [ ]

$\frac{2}{3}$ of [ ] = 20

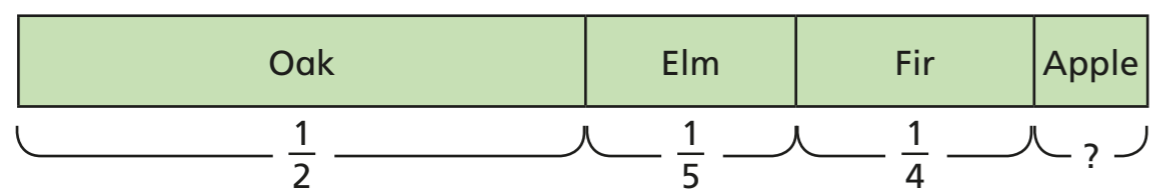$800 = \frac{4}{10}$ of [ ]

$\frac{4}{5}$ of [ ] = 20

$8 = \frac{4}{10}$ of [ ]

$\frac{4}{5}$ of [ ] = 120

$80 = \frac{4}{100}$ of [ ]

5 This diagram shows the fractions of trees in school grounds.

Oak	Elm	Fir	Apple

$\frac{1}{2}$ $\frac{1}{5}$ $\frac{1}{4}$?

There are 40 elm trees.

Complete the table.

Oak	
Elm	40
Fir	
Apple	
Total	

6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.

How many millimetres of paint are left in the tin?

[ ]

7 Complete the calculations.

$4 = \frac{10}{15}$ of [ ]

$15 = \frac{75}{100}$ of [ ]

$1 = \frac{250}{2,000}$ of [ ]

Compare your method with a partner. What do you notice?