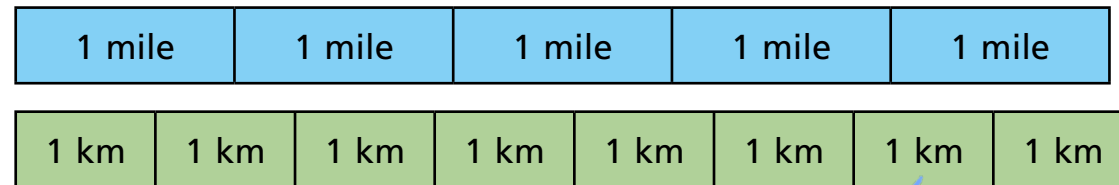


Miles and kilometres

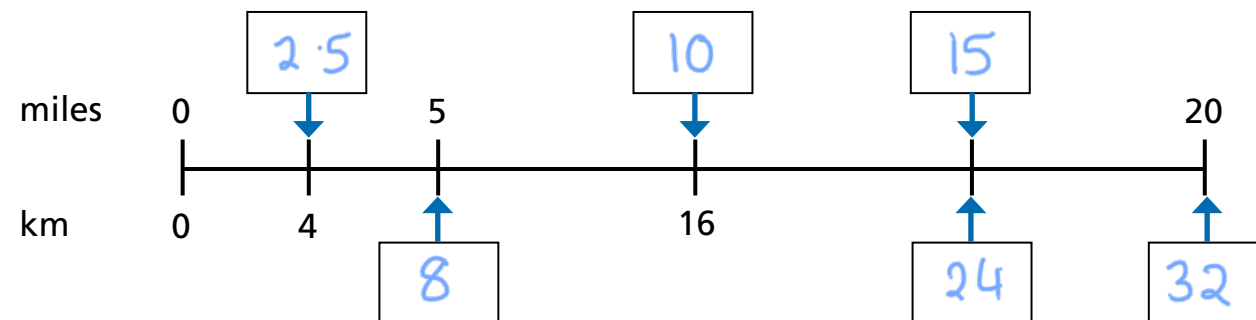
1 Tick the statements that are true.

Use the bar model to help you.



- a) 5 miles is approximately equal to 8 kilometres. ☒
- b) 1 mile is longer than 1 kilometre. ☒
- c) 2 kilometres is longer than 1 mile. ☒
- d) 2 kilometres is longer than 2 miles. ☐

2 Fill in the missing numbers on the number line.



3 Complete the conversions.

- a) 5 miles $\approx$ 8 kilometres
 10 miles $\approx$ 16 kilometres
 15 miles $\approx$ 24 kilometres
- b) 10 miles $\approx$ 16 kilometres
 1 mile $\approx$ 1.6 kilometres
 0.5 miles $\approx$ 0.8 kilometres

4 Complete the conversions.

- a) 100 miles $\approx$ 160 km
 b) 45 miles $\approx$ 72 km
 c) 400 miles $\approx$ 640 km
- d) 95 miles $\approx$ 152 km
 e) 7.5 miles $\approx$ 12 km
 f) 2 miles $\approx$ 3.2 km

5



If 5 miles is approximately 8 kilometres, then 10 miles is approximately 13 kilometres.

Here is Whitney's working out.

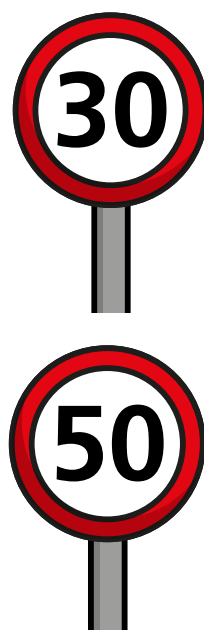
$$\begin{array}{c}
 +5 \quad \swarrow \quad 5 \text{ miles} \approx 8 \text{ km} \\
 \searrow \quad 10 \text{ miles} \approx 13 \text{ km} \quad \swarrow +5
 \end{array}$$

Explain Whitney's mistake.

- 6 A marathon is approximately 26.2 miles.
How far is this in kilometres?

41.92km

- 7 The maximum speed limit on residential roads in the UK is 30 miles per hour.



In France, the maximum speed limit on residential roads is 50 kilometres per hour.

- a) Which country has the higher speed limit for these roads?

France

- b) What is the difference between the speed limits in miles per hour?

1.25mph

- 8 Esther cycles 70 miles over 4 days.
On day 1 she cycles 14 miles.
On day 2 she cycles 32 km.
On day 4 she cycles twice as far as she does on day 3
How far does she cycle on day 4?
Give units with your answer.

24 miles

- 9 Use a map of your local area. *Various answers.*
Find something that is approximately:

- a) 1 mile away from your school

- b) 1 km away from your school

- c) 5 miles away from your school

- d) 5 km away from your school

Compare answers with a partner.