

Complete the conversions.

a) miles \approx 160 km

d) 95 miles \approx km

b) 45 miles \approx km

e) 7.5 miles \approx km

c) \approx 640 km

f) 2 miles \approx km



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

Here is Whitney's working out.

$$\begin{array}{l} + 5 \quad \left\{ \begin{array}{l} 5 \text{ miles} \approx 8 \text{ km} \\ 10 \text{ miles} \approx 13 \text{ km} \end{array} \right. \quad \left. \begin{array}{l} \\ + 5 \end{array} \right. \end{array}$$

Explain Whitney's mistake.

A marathon is approximately 26.2 miles.

How far is this in kilometres?

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.



Which country has the higher speed limit for these roads?

Working Deeper

1. First of all, plot the following points on the graph:

- a. 8km = 5 miles
- b. 20 miles = 32km
- c. 16km = 10 miles
- d. 0 miles = 0km

2. Now, using a ruler, join up the points with a straight line.

3. Now, use the line on your graph to finish the following conversions:

- a. 15 miles = _____
- b. 30km = _____
- c. 35 miles = _____
- d. 49km = _____

Working Deeper

Mo cycles 45 miles over the course of 3 days.

On day 1, he cycles 16 km.

On day 2, he cycles 10 miles further than he did on day 1

How far does he cycle on day 3?

Give your answer in miles and in kilometres.

Working Deeper

Ron and Annie are running a 5 mile race.



I have run 6.4 km so far

I have run 3.8 miles so far



Who has the furthest left to run?