





**Steps to Success**

Lockdown	
Date	<b>25.02.21</b>
Subject/s	<b>Maths</b>
Learning Objective 	To convert between miles and kilometres.

		SA 	TA 
Success Criteria 	I know 1 mile ~ 1.6km and 8km ~ 5miles		
	I can draw a conversion graph using the facts I already know		
	I can use the conversion graph to approximately convert miles to kilometres.		
Support	Independent	Adult Support ( )	Group Work

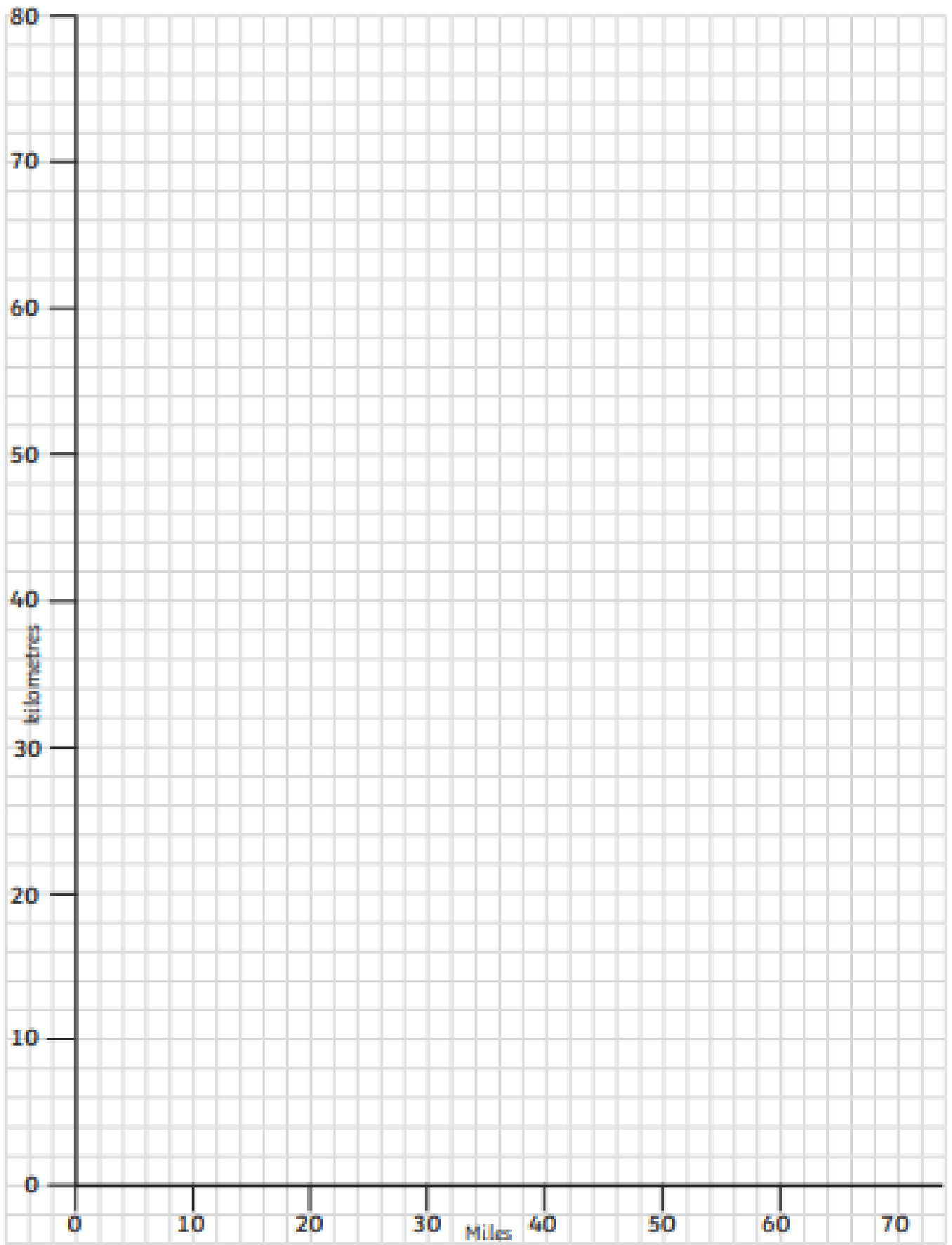
Pre-task:

In the United Kingdom, the maximum speed limit is 70 miles per hour (mph). In France, the maximum speed limit is 130 kilometres per hour (kph).



Which country has the higher speed limit and by how much?

Questions



Use the blank graph or draw your own on graph paper, to create a conversion graph to convert distances between miles and kilometres.

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 = \_\_\_\_\_

## Problem Solving and Reasoning

Use it!



Explain it!



Josh and Lucas are running a 5 mile race.

I have ran 6.4 km so far.



I have ran 3.8 miles so far.

Who has the furthest left to run?

Use it!



Raj 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.

**Answers**

1 mile ~ 1.6km

So

Josh

4 miles ~ 6.4km

So 1 mile left to run

Lucas has 1.2miles left.

Lucas has the furthest left to run.

1.2 km ~ 1mile

8km ~ 5miles

Day 1

16km ~ 10miles

Day 2

32km ~ 20miles

Total so far = 48km or 30 miles

Day 3

15miles ~ 24km

**Answers**

### Further Challenge

The coach of the Irish hockey team has a maximum speed of 60 miles per hour. If it travels this speed for two hours, how many kilometres does it travel to the nearest 10 km?