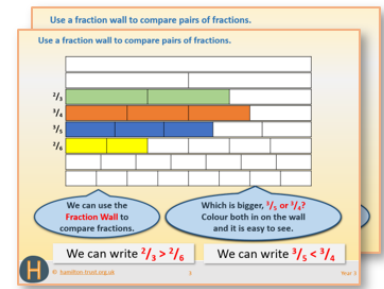


## Week 14, Day 5

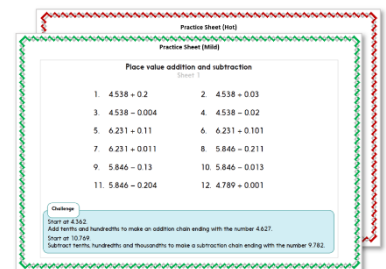
### Know some imperial units and approximate metric equivalents

Each day covers one maths topic. It should take you about 1 hour or just a little more.

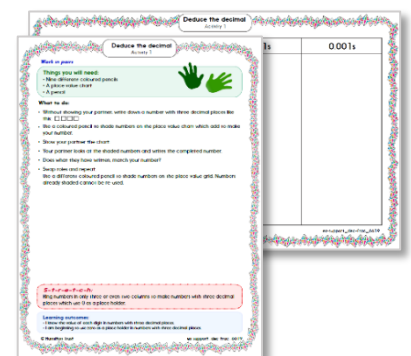
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



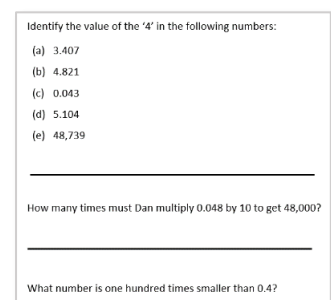
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



## Learning Reminders

Know regularly used imperial units and approximate metric equivalents; covert between units.

### Imperial units

pints   **pounds**   stones   ounces  
feet   inches   **yards**

These are some of the imperial units we still hear being used.

Some bags of crisps weigh 28 grams, a very strange number but this is because there were originally '1-ounce' packets.  
28g is approximately 1 ounce.

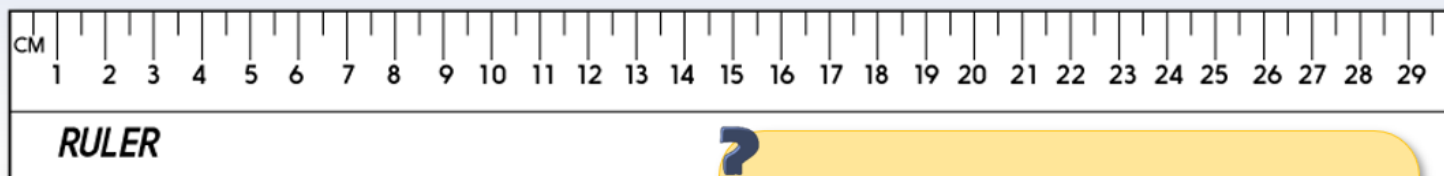
A new born baby might weigh 7 pounds. There are 16 ounces in a pound. So that's 112 ounces ( $16 \times 7$ ).  
That's 112 bags of crisps!



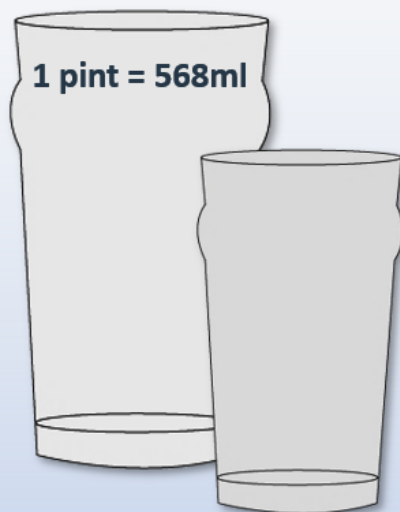
Many adults will know their weight in stones and pounds rather than kilograms.  
There are 14 pounds in a stone.  
10 kilograms is about the same as 1 stone 7 pounds.  
If a child weighs 40 kilograms that's around 6 stone.

## Learning Reminders

**Know regularly used imperial units and approximate metric equivalents; covert between units.**



**30cm is a funny number to choose for a ruler, but rulers used to be a foot long, 12 inches, about 30cm.  
An inch is about an adult thumb width.**



**Milk used to come in pint bottles and pubs still serve drinks in pint and half-pint glasses.**

## Learning Reminders

Know regularly used imperial units and approximate metric equivalents; covert between units.

Distances on signs in the UK are in miles.

But in France, for example, distances on signs are in kilometres.

A mile is longer than a kilometre, and a good approximate rule to convert from miles to kilometres or vice versa is to remember that 5 miles is approximately 8 km.

Miles	Kilometres
10	
15	
20	
50	

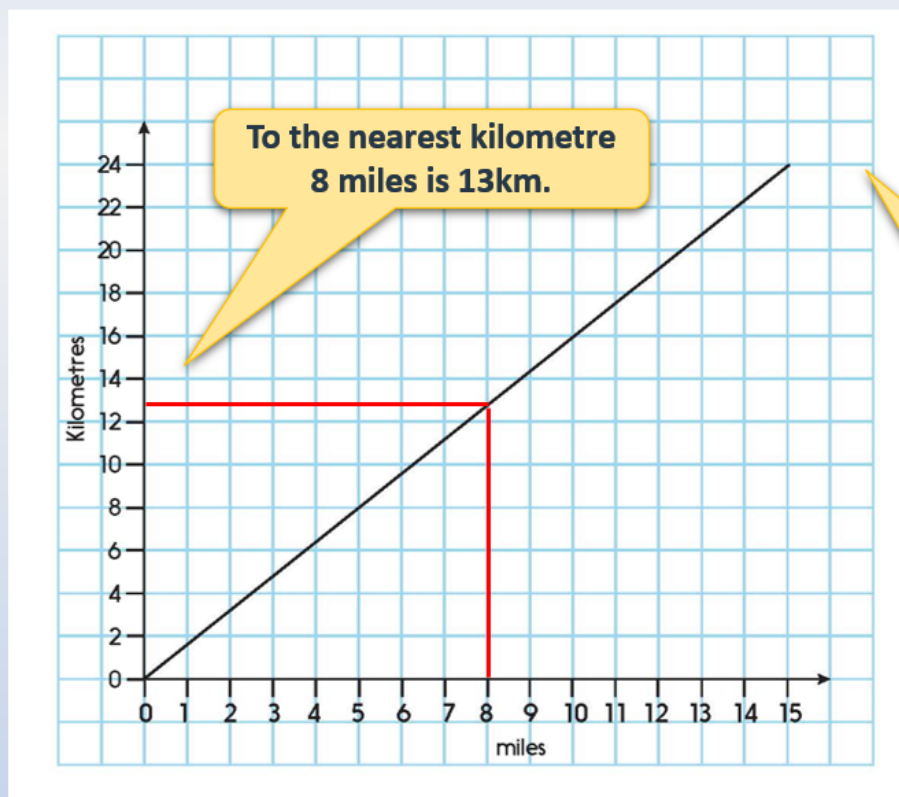
Complete this table showing the number of kilometres.

### Answers

10miles = 16km  
15miles = 24km  
20miles = 32km  
50miles = 80km

## Learning Reminders

Know regularly used imperial units and approximate metric equivalents; covert between units.



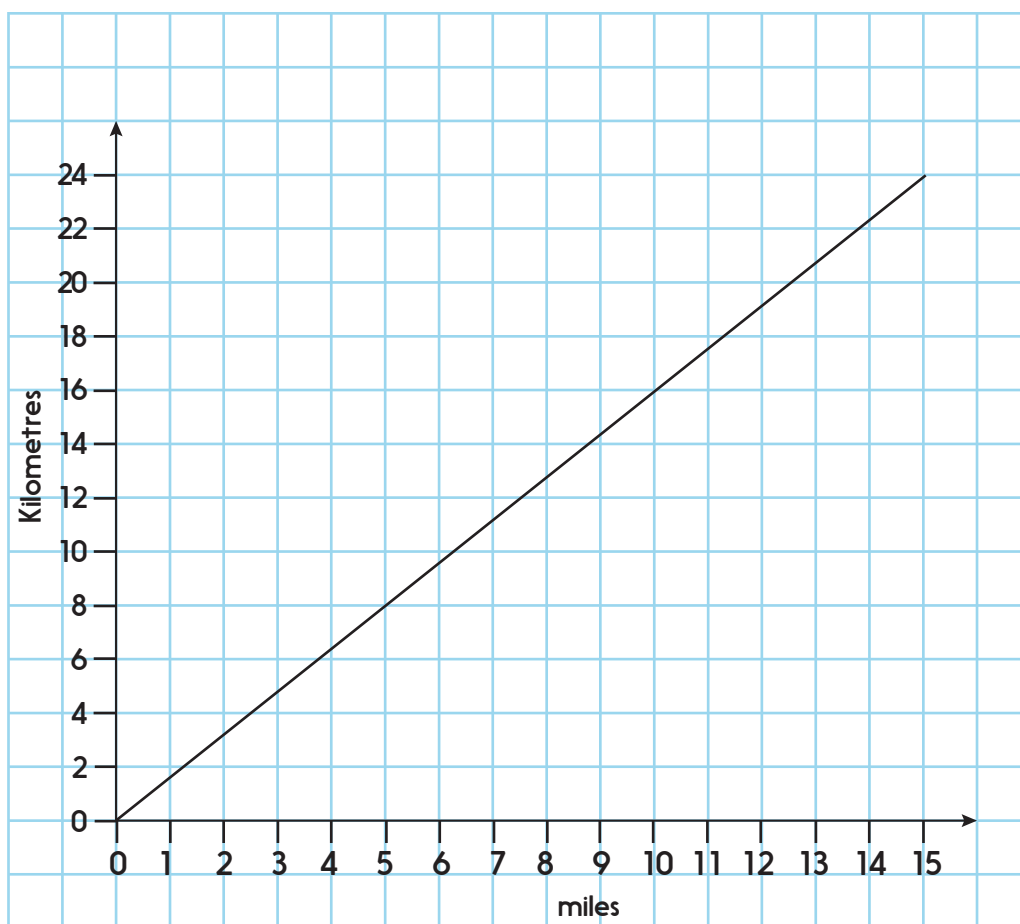
We can also use a graph to convert miles to kilometres.

For example to find 8 miles in kilometres draw a straight line up from 8 miles to where it meets the graph line, then trace across to read off the number of kilometres.

To convert kilometres to miles use the graph the other way around starting with kilometres.

## Practice Sheet Mild

### Converting between miles and kilometres



Use the graph to convert the following distances to the nearest kilometre.

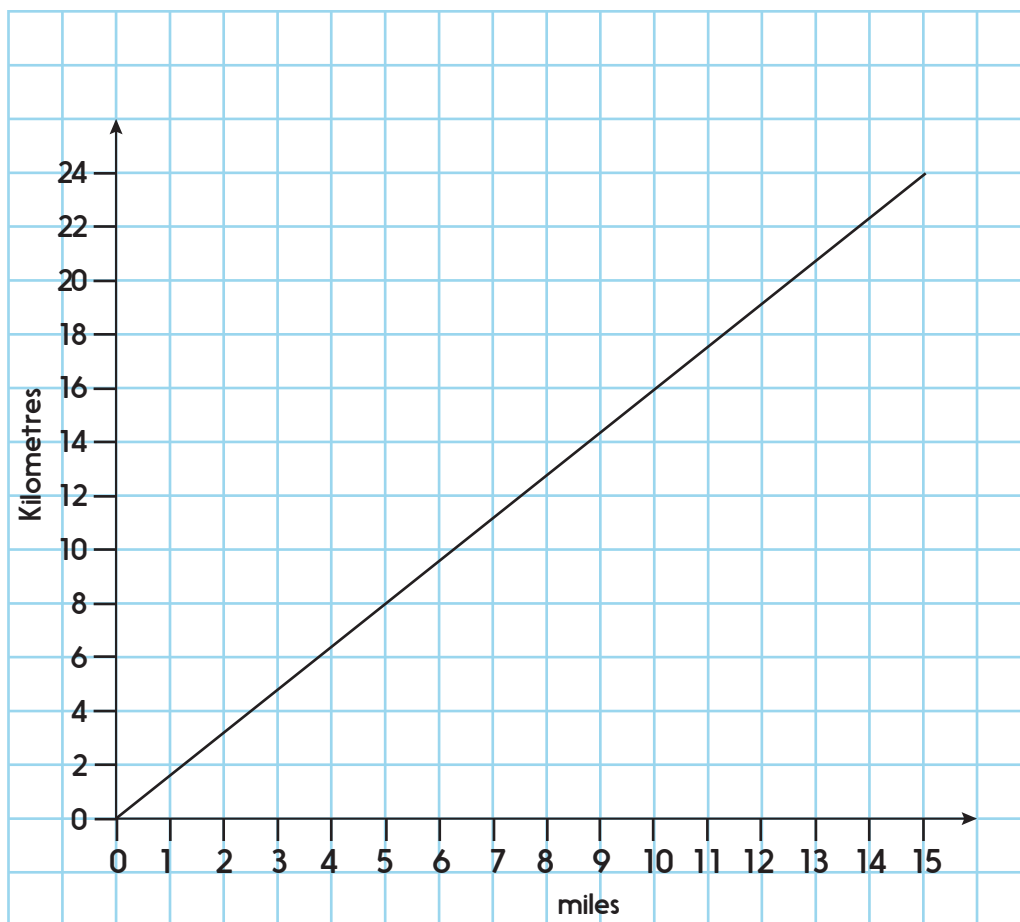
1. 5 miles
2. 10 miles
3. 2.5 miles
4. 12 miles

Use the graph to convert the following distances to the nearest mile.

5. 12 km
6. 24 km
7. 18 km
8. 7 km

## Practice Sheet Hot

### Converting between miles and kilometres



Use the graph to convert the following distances to the nearest kilometre.

1. 5 miles
2. 10 miles
3. 2.5 miles
4. 12 miles

Use the graph to convert the following distances to the nearest mile.

5. 12 km
6. 24 km
7. 18 km
8. 7 km

#### Challenge

Use your answers to estimate how many kilometres are equivalent to

1. 20 miles
2. 25 miles
3. 50 miles
4. 250 miles

## Practice Sheet Hot

### Converting between centimetres and inches

Use the information in the box below to complete this 'ready reckoner'. It helps people to approximately convert their heights from feet and inches to metres and centimetres, or vice versa.

30 cm is approximately 12 inches.  
There are 12 inches in one foot.  
1 inch is approximately  $2\frac{1}{2}$  cm.

#### Ready Reckoner

Height in feet and inches	Height in metres and centimetres
5 feet	
	1m 35cm
5 feet 4 inches	
	1m 45cm
5 feet 8 inches	
5 feet 10 inches	
	1m 80cm
6 feet 2 inches	
6 feet 4 inches	

#### Challenge

Measure some distances around the classroom in metres and centimetres. For example, the length and width of the room, your desk, the whiteboard. Can you convert these to feet and inches?