Year 6

Thursday 25th June 2020 Maths

LO: Converting Miles and Kilometres





<u>The video of this lesson is available here – Summer</u> <u>Term – Week 8 - lesson 4</u>

This link works on the printable version and is available above the PowerPoint.

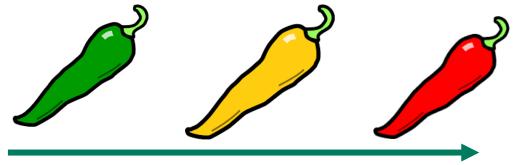
You will need to watch this video to learn the skills you need in this lesson.





The independent work continues on the next two slides. There are 8 questions and 1 further extension you can chose to do if you wish.

(Espanol – ocho preguntas y una extensión)



The chili suggests a good starting point.

If you have time you can complete all the independent work!

White Rose Maths

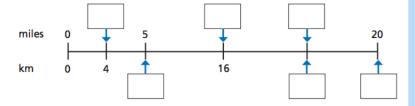
Miles and kilometres



Tick the statements that are true.

Use the bar model to help you.									
1 mile		1 mile		1 mile		1 mile	1 r	1 mile	
1 km	1 k	m	1 km	1 km	1 km	1 km	1 km	1 km	

- 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. \Box
- d) 2 kilometres is longer than 2 miles.
- 2 Fill in the missing numbers on the number line.



Complete the conversions.



a) 5 miles ≈ kilometres

10 miles ≈		kilometre
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15 miles ≈		kilometre
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b) miles ≈ 16 kilometres

mile ≈ 1.6 kilometres

miles ≈ 0.8 kilometres

Complete the conversions.



miles ≈ 160 km

d) 95 miles ≈ km

b) 45 miles ≈

km

e) 7.5 miles ≈ km

c) ≈ 640 km

f) 2 miles ≈ km





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

Here is Whitney's working out.

+ 5
$$\left\langle \frac{5 \text{ miles } \approx 8 \text{ km}}{10 \text{ miles } \approx 13 \text{ km}} \right\rangle + 5$$

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. a) Which country has the higher speed limit for these roads? b) What is the difference between the speed limits in miles per hour?



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.

Just for Fun! You could use Google Maps. This task will give you a good perspective of the distances.

9 Use a map of your local area.

Find something that is approximately:

b) 1 km away from your school

a) 1 mile away from your school

c) 5 miles away from your school

d) 5 km away from your school

Compare answers with a partner.

















The next two slides contain the answers should you wish to check you work and reflect on what you understand.







White Rose Maths

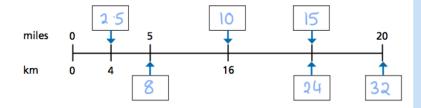
Miles and kilometres

Tick the statements that are true.

Use the bar model to help you.

	1 mile		1 mile	1 m	ile	1 mile	1 1	1 mile	
)	1 km	1 km	1 km	1 km	1 km	1 km	1 km	1 km	

- 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.



- Complete the conversions.
 - a) 5 miles \approx 8 kilometres b) $| 0 \rangle$ miles \approx 16 kilometres 10 miles \approx 16 kilometres 15 miles \approx 24 kilometres $| 0 \rangle$ miles \approx 0.8 kilometres

- Complete the conversions.
 - a) | 100 | miles ≈ 160 km
- **d)** 95 miles ≈ | |52 | km



- **b)** 45 miles ≈ 72 km
- e) 7.5 miles ≈ 12 kr
- c) 400 ≈ 640 km
- f) 2 miles \approx $3 \cdot 2$ km

5



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

Here is Whitney's working out.

+ 5
$$\left(\frac{5 \text{ miles } \approx 8 \text{ km}}{10 \text{ miles } \approx 13 \text{ km}}\right)$$
 + 5

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?



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

Just for Fun!

9 Use a map of your local area. Various answers,

Find something that is approximately:

a) 1 mile away from your school

Arsenal Youth Academy (1.3 Miles)

b) 1 km away from your school

Highams Park Playground (5KM)

c) 5 miles away from your school

The Tottenham Hotspur Stadium (4.1 Miles)

d) 5 km away from your school

Walthamstow Central (4.5KM)

Compare answers with a partner.







