

Homework/Extension

Step 4: Miles and Kilometres

All conversions in this resource are based on 5 miles \approx 8 kilometres.

National Curriculum Objectives:

Mathematics Year 6: (6M6) [Convert between miles and kilometres](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the symbols $<$, $>$ or \approx to complete a statement. Questions converting between miles and kilometres. All miles are multiples of 5 or kilometres are multiples of 8.

Expected Use the symbols $<$, $>$ or \approx to complete a statement. Questions converting between miles and kilometres. Using numbers with up to 1 decimal place.

Greater Depth Use the symbols $<$, $>$ or \approx to complete a statement. Questions converting between miles and kilometres. Using numbers with up to 2 decimal place, and fractions and percentages of miles and kilometres.

Questions 2, 5 and 8 (Varied Fluency)

Developing Add distances in kilometres to distances in miles and find the sum in both miles and kilometres. All miles are multiples of 5 or kilometres are multiples of 8.

Expected Add distances in kilometres to distances in miles and find the sum in both miles and kilometres. Using numbers with up to 1 decimal place.

Greater Depth Add distances in kilometres to distances in miles and find the sum in both miles and kilometres. Using numbers with up to 2 decimal place, and fractions and percentages of miles and kilometres.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify and explain whether a statement is correct when converting between miles and kilometres. All miles are multiples of 5 or kilometres are multiples of 8.

Expected Identify and explain whether a statement is correct when converting between miles and kilometres. Using numbers with up to 1 decimal place.

Greater Depth Identify and explain whether a statement is correct when converting between miles and kilometres. Using numbers with up to 2 decimal place, and fractions and percentages of miles and kilometres.

More [Year 6 Converting Units](#) resources.

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Miles and Kilometres

1. Compare the distances below using $<$, $>$ or \approx .

15 miles

32km

16km

20 miles

48km

30 miles

45 miles

64km



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2. Convert the calculations below to find the answer.

A. $5 \text{ miles} + 8 \text{ km} = \square \text{ miles}$

B. $15 \text{ miles} + 32 \text{ km} = \square \text{ km}$

C. $24 \text{ km} + 25 \text{ miles} = \square \text{ miles}$



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3. Ashleigh is aiming to walk the 8km round trip to school for the next 3 weeks.

She says,



Ashleigh

At the end of the three weeks, I will have walked 15 miles.

Do you agree with Ashleigh? Explain why.



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Miles and Kilometres

4. Compare the distances below using $<$, $>$ or \approx .

8 miles

12.5km

0.8km

0.5 miles

17.5 miles

28.5km

2.5km

1.5 miles



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HW/Ext

5. Convert the calculations below to find the answer.

A. $7 \text{ miles} + 1.6\text{km} = \square \text{ miles}$

B. $0.5 \text{ miles} + 1.2\text{km} = \square \text{ km}$

C. $6\text{km} + 3.5 \text{ miles} = \square \text{ miles}$



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6. Jonas is aiming to run 1.5 miles a day for 25 days.

He says,



Jonas

At the end of the 25 days, I will have run 50km.

Do you agree with Jonas? Explain why.



RPS
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Miles and Kilometres

7. Compare the distances below using $<$, $>$ or \approx .

0.25 miles

$\frac{1}{4}$ km

1.4km

0.7 miles

55% of 70 miles

64% of 95km

$27\frac{3}{4}$ miles

$44\frac{2}{5}$ km



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8. Convert the calculations below to find the answer.

A. $5.1 \text{ miles} + 6.08\text{km} = \square \text{ km}$

B. $4.8 \text{ miles} + 7.04\text{km} = \square \text{ km}$

C. $13\frac{6}{10} \text{ km} + 4\frac{3}{4} \text{ miles} = \square \text{ miles}$



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9. Marie is aiming to trek around Mount Kilimanjaro and climb to the summit. The trip will take 19 days and she will be trekking 4.3 miles per day.

She says,



Marie

After 10 days I will have completed 76km of my trek. On day 19 I will have completed 140.5km in total.

Do you agree with Marie? Explain why.



RPS
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Homework/Extension Miles and Kilometres

Developing

1. 15 miles < 32km; 16km < 20 miles; 48km \approx 30 miles; 45 miles > 64km
2. A. 10 miles; B. 56km; C. 40 miles
3. No because three school weeks is 15 days and after this time Ashleigh will have walked 120km which is 75 miles.

Expected

4. 8 miles > 12.5km; 0.8km \approx 0.5 miles; 17.5 miles < 28.5km; 2.5km \approx 1.5 miles
5. A. 8 miles; B. 2km; C. 7.1 miles
6. Jonas is incorrect. If he runs 1.5 miles per day for 25 days he will have completed 60km.

Greater Depth

7. 0.25 miles > $\frac{1}{4}$ km; 1.4km > 0.7 miles; 55% of 70 miles > 64% of 95km; $27\frac{3}{4}$ miles \approx $44\frac{2}{5}$ km
8. A. 14.24km; B. 14.72km; C. 12.91 miles
9. No because after 10 days of the trek Marie will have completed 68.8km of her trek not 76km because $4.3 \div 5 \times 8 \times 10 = 68.8$. At the end of 19 days, Marie will have completed a trek of 130.72km and not 140.5km because $4.3 \div 5 \times 8 \times 19 = 130.72$.