

Varied Fluency

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:

Developing Questions to support converting between miles and kilometres. All miles are multiples of 5 or kilometres are multiples of 8.

Expected Questions to support converting between miles and kilometres. Using numbers with up to 1 decimal place.

Greater Depth Questions to support converting between miles and kilometres. Using numbers with up to 2 decimal places (i.e. 0.25, 0.75), and fractions and percentages of miles and kilometres.

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

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Miles and Kilometres

1a. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 24km

10 miles \approx

miles \approx 32km



VF

Miles and Kilometres

1b. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 80km

45 miles \approx

miles \approx 40km



VF

2a. Tick the correct statement.

A. 35 miles is approximately equivalent to 42km.

B. 30 miles is approximately equivalent to 48km.

C. 25 miles is approximately equivalent to 45km.



VF

2b. Tick the correct statement.

A. 60 miles is approximately equivalent to 90km.

B. 60 miles is approximately equivalent to 96km.

C. 40 miles is approximately equivalent to 88km.



VF

3a.

Max travelled 48km.

Isaac travelled 35 miles

Bethany travelled 42 miles

Who travelled the farthest?



VF

3b.

Ivy walked 24km.

Millie walked 10 miles.

Cameron walked 16km

Who walked the farthest?



VF

4a. Match the approximate equivalent distances.

50 miles

16km

10 miles

24km

20 miles

32km

15 miles

80km



VF

4b. Match the approximate equivalent distances.

25 miles

8km

5 miles

64km

30 miles

48km

40 miles

40km



VF

Miles and Kilometres

5a. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 0.8km

1 mile \approx

miles \approx 320km



VF

Miles and Kilometres

5b. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 16km

50 miles \approx

miles \approx 3.2km



VF

6a. Tick the correct statement.

A. 40 miles is approximately equivalent to 56km.

B. 25 miles is approximately equivalent to 40km.

C. 2.5 miles is approximately equivalent to 4.5km.



VF

6b. Tick the correct statement.

A. 30 miles is approximately equivalent to 45km.

B. 45 miles is approximately equivalent to 64km.

C. 7.5 miles is approximately equivalent to 12km.



VF

7a.

Sam cycled 12km.

Felix cycled 7.5 miles

Georgina cycled 6.4km

Who cycled the farthest?



VF

7b.

Jess ran 7 miles.

Alex ran 9.6km

Pippa ran 7.5 miles

Who ran the farthest?



VF

8a. Match the approximate equivalent distances.

2.5 miles

2.4km

5 miles

4km

1.5 miles

7.2km

4.5 miles

8km



VF

8b. Match the approximate equivalent distances.

0.5 miles

11.2km

100 miles

0.8km

1 miles

1.6km

7 miles

160km



VF

Miles and Kilometres

9a. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 0.4km

$\frac{3}{4}$ mile \approx

miles \approx 2km



VF

Miles and Kilometres

9b. Calculate the missing conversions.

5 miles \approx 8km

miles \approx 0.16km

0.4 miles \approx

miles \approx 1.12km



VF

10a. Tick the correct statement.

A. $\frac{1}{4}$ of 6 miles is approximately equivalent to 2.4km.

B. 2.5 miles is approximately equivalent to 5km.

C. 75% of 20 miles is approximately equivalent to 20km.



VF

10b. Tick the correct statement.

A. $\frac{6}{10}$ of 7 miles is approximately equivalent to 9km.

B. 11.75 miles is approximately equivalent to 20km.

C. 40% of 14 miles is approximately equivalent to 8.96km.



VF

11a.

Jack stopped after 75% of his 160km journey.

Jacob stopped after 85.25 miles.

Lily travelled $\frac{3}{4}$ of her 71 mile journey.

Who travelled the farthest?



VF

11b.

Juan completed $\frac{3}{4}$ of his 92km race.

Isla had to stop after 25% of her 127 mile race.

Hafsa travelled 44km and then a further 8 miles.

Who travelled the farthest?



VF

12a. Match the approximate equivalent distances.

0.15 miles

1.68km

0.3 miles

0.56km

$\frac{35}{100}$ miles

0.48km

1.05 miles

0.24km



VF

12b. Match the approximate equivalent distances.

14 miles

5.04km

$\frac{5}{100}$ miles

44.8km

28 miles

0.08km

3.15 miles

22.4km



VF

Varied Fluency Miles and Kilometres

Developing

- 1a. 15 miles, 16km, 20 miles
2a. B
3a. Bethany
4a. 50 miles \approx 80km, 10 miles \approx 16km, 20 miles \approx 32km, 15 miles \approx 24 km

Expected

- 5a. 0.5 miles, 1.6km, 200 miles
6a. B
7a. Sam and Felix
8a. 2.5 miles \approx 4km, 5 miles \approx 8km, 1.5 miles \approx 2.4km, 4.5 miles \approx 7.2km

Greater Depth

- 9a. 0.25 miles, 1.2km, 1.25 miles
10a. A
11a. Jacob
12a. 0.15 miles \approx 0.24km, 0.3 miles \approx 0.48km, $\frac{35}{100}$ km \approx 0.56km, 1.05 miles \approx 1.68km

Varied Fluency Miles and Kilometres

Developing

- 1b. 50 miles, 72km, 25 miles
2b. B
3b. Ivy
4b. 25 miles \approx 40km, 5 miles \approx 8km, 30 miles \approx 48km, 40 miles \approx 64km

Expected

- 5b. 10 miles, 80km, 2 miles
6b. C
7b. Pippa
8b. 0.5 miles \approx 0.8km, 100 miles \approx 160km, 1 mile \approx 1.6km, 7 miles \approx 11.2km

Greater Depth

- 9b. 0.1 miles, 0.64km, 0.7 miles
10b. C
11b. Juan
12b. 14 miles \approx 22.4km, $\frac{5}{100}$ miles \approx 0.08km, 28 miles \approx 44.8km, 3.15 miles \approx 5.04km