

# Homework/Extension

## Step 1: Kilometres

### National Curriculum Objectives:

Mathematics Year 4: (4M5) [Convert between different units of measure \(for example, kilometre to metre; hour to minute\)](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Complete the calculations, using conversion between metres and kilometres where some kilometres are represented as halves.

**Expected** Complete the calculations, using conversion between metres and kilometres where kilometres are represented as wholes, halves and quarters.

**Greater Depth** Complete the calculations, using conversion between metres and kilometres where kilometres are represented as wholes, halves, quarters and tenths. Some kilometres are represented in words.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Order distances by converting between metres/kilometres where some kilometres are represented as wholes and halves.

**Expected** Order distances by converting between metres/kilometres where kilometres are represented as wholes, halves and quarters.

**Greater Depth** Order distances by converting between metres/kilometres where kilometres are represented as wholes, halves, quarters and tenths. Some kilometres are represented in words.

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

**Developing** Explain whether a given statement is correct using conversion between metres/kilometres where kilometres are represented as wholes and halves.

**Expected** Explain whether a given statement is correct using conversion between metres/kilometres where kilometres are represented as wholes and quarters.

**Greater Depth** Explain whether a given statement is correct using conversion between metres/kilometres where kilometres are represented as wholes, halves, quarters and tenths. Some kilometres are represented in words.

More [Year 4 Length and Perimeter](#) resources.

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# Kilometres

1. Complete the following calculations. Don't forget to use a unit of measurement in the answer!

A.  $7\text{km} + 2,000\text{m} =$

B.  $3,500\text{m} + 3\text{km} =$

C.  $5,000\text{m} - 3\frac{1}{2}\text{km} =$



VF  
HW/Ext

2. Four children swam for an hour. The results of how far they swam are shown in the table below.

James	$1\frac{1}{2}\text{km}$
Aaron	2,500m
Ellie	1km
Charlotte	2km



Order the distances swam from shortest to furthest in metres.

   

Shortest

Furthest



VF  
HW/Ext

3. Harry has taken part in a sponsored bike ride.

He says,



I cycled  $\frac{1}{2}$  of a kilometre less than 1,000m. I think I cycled 500 metres.

Is he correct? Explain your answer.



RPS  
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# Kilometres

4. Complete the following calculations. Don't forget to use a unit of measurement in the answer!

A.  $5\text{km} + 6,500\text{m} =$

B.  $1,250\text{m} + 5\frac{1}{2}\text{km} + 2,750\text{m} =$

C.  $8,000\text{m} - 3\frac{1}{4}\text{km} =$



VF  
HW/Ext

5. Four children ran for an hour. The results of how far they ran are shown in the table below.

Hannah	$2\frac{1}{2}\text{ km}$
David	2,200m
Michael	$2\frac{1}{4}\text{ km}$
Sarah	3km



Order the distances run from shortest to furthest in metres.

Shortest

Furthest



VF  
HW/Ext

6. Sam has taken part in a charity swim at the local swimming baths.

She says,



I swam  $\frac{1}{4}$  of a kilometre less than 3,000m. I think I swam 3,250 metres.

Is she correct? Explain your answer.



RPS  
HW/Ext

# Kilometres

7. Complete the following calculations. Don't forget to use a unit of measurement in the answer!

A.  $3\frac{1}{4}$  km +  = 6,500m

B.  +  $5\frac{4}{10}$  km + 2,900m = Ten kilometres

C.  -  $3\frac{1}{4}$  km = Two thousand metres



VF  
HW/Ext

8. Four children walked for an hour. The results of how far they walked are shown in the table below.

Malcolm	$6\frac{6}{10}$ km
Julie	Six and a half kilometres
Oliver	$6\frac{3}{4}$ km
Ruby	Half of 12km



Order the distances walked from shortest to furthest in metres.

Shortest

Furthest



VF  
HW/Ext

9. Joe skated for charity at his local skating rink.

He says,



I skated two tenths of a kilometre more than 2,550m. I think I skated  $2\frac{1}{4}$  kilometres.

Is he correct? Explain your answer.



RPS  
HW/Ext

## Homework/Extension Kilometres

### Developing

1. A. 9,000m or 9 km B. 6,500m or  $6\frac{1}{2}$  km C. 1,500m or  $1\frac{1}{2}$  km
2. 1,000m, 1,500m, 2,000m, 2,500m
3. Harry is correct.  $\frac{1}{2}$  of a kilometre is 500m.  $1,000\text{m} - 500\text{m} = 500\text{m}$ .

### Expected

4. A. 11,500m or 11 km B. 9,500m or  $9\frac{1}{2}$  km C. 4,750m or  $4\frac{3}{4}$  km
5. 2,200m, 2,250m, 2,500m, 3,000m
6. Sam is incorrect. The correct answer should be 2,750m because  $\frac{1}{4}$  km = 250m and  $3,000\text{m} - 250\text{m} = 2,750\text{m}$ .

### Greater Depth

7. A. 3,250m or  $3\frac{1}{4}$  km B. 1,700m or  $1\frac{7}{10}$  km C. 5,250m or  $5\frac{1}{4}$  km
8. 6,000m, 6,500m, 6,600m, 6,750m
9. Joe is incorrect. If he had skated two tenths of a kilometre more, he would have skated  $2,550\text{m} + 200\text{m} = 2,750\text{m}$  or  $2\frac{3}{4}$  km because two tenths of a kilometre is 200m.