# Varied Fluency Step 1: Kilometres

### **National Curriculum Objectives:**

Mathematics Year 4: (4M5) <u>Convert between different units of measure (for example, kilometre to metre; hour to minute)</u>

#### **Differentiation:**

Developing Questions to support converting metres and kilometres using whole and half units.

Expected Questions to support converting metres and kilometres using wholes, halves, quarters and tenths. Tenths used in metres only. Kilometres represented as numbers and some use of fractions for halves and quarters.

Greater Depth Questions to support converting metres and kilometres using wholes, halves, quarters and tenths. Including a mixture of numbers and words. Kilometres represented as numbers and some use of fractions for tenths.

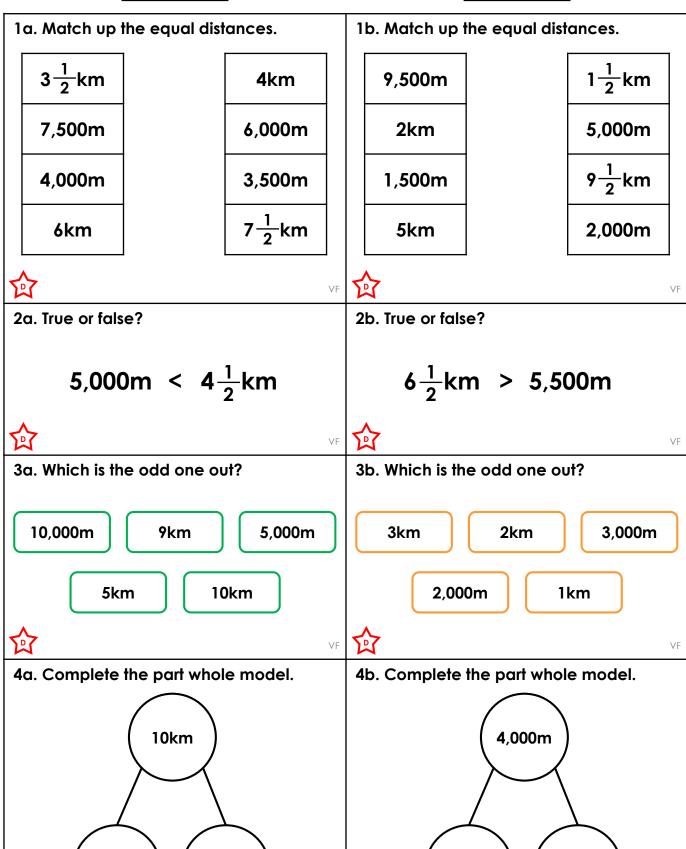
More <u>Year 4 Length and Perimeter</u> resources.

Did you like this resource? Don't forget to review it on our website.



## **Kilometres**

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km

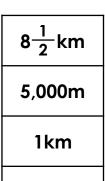
 $1\frac{1}{2}$ km

3,000m

## **Kilometres**

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5a. Match up the equal distances.



$$\frac{1}{4}$$
km

$$3\frac{1}{4}$$
km

$$7\frac{1}{2}$$
km



6a. True or false?

$$<\frac{1}{10}$$
 of 9,000 m

 $> \frac{1}{10}$  of 7,000m 7km







7b. Which is the odd one out?

1km

5,000m

2,000m

3km

7,000m

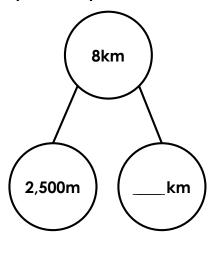
$$\frac{1}{2}$$
 of 10km

of 8km

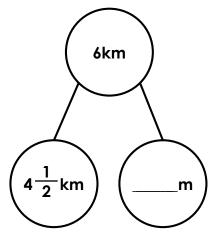
3,000m



8a. Complete the part whole model.



8b. Complete the part whole model.



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## **Kilometres**

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9a. Match up the equal distances.

4,750m

 $9\frac{3}{4}$ km

 $7\frac{1}{4}$ km

5,500m

 $5\frac{1}{2}$ km

7,250m

9,750m

 $4\frac{3}{4}$ km

9b. Match up the equal distances.

 $6\frac{1}{2}$ km

2,250m

8,500m

 $8\frac{3}{4}$ km

 $2\frac{1}{4}$ km

 $8\frac{1}{2}$ km

8,750km

6,500m



10a. True or false?

7km

< one tenth of nine kilometres

10b. True or false?

 $1\frac{1}{4}$ km > one tenth of ten thousand metres



11a. Which is the odd one out?

8,250m

3,000m

5,500m

 $\frac{1}{2}$  of 11km

 $8\frac{1}{4}$ km

11b. Which is the odd one out?

9,750m

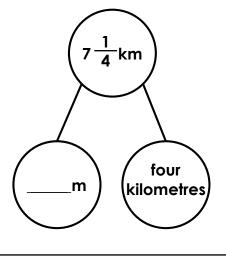
6,250m

 $9\frac{3}{4}$ km

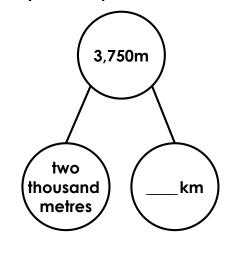
 $\frac{3}{4}$  of 9km



12a. Complete the part whole model.



12b. Complete the part whole model.





### Varied Fluency Kilometres

# Varied Fluency Kilometres

#### <u>Developing</u>

1a. 
$$3\frac{1}{2}$$
km = 3,500m; 7,500m =  $7\frac{1}{2}$ km;

2a. False, 5,000m is more than 
$$4\frac{1}{2}$$
km.

1b. 9,500m = 
$$9\frac{1}{2}$$
 km; 2km = 2,000m;

$$1,500$$
m =  $1\frac{1}{2}$  km; 5km = 5,000m

**Developing** 

#### **Expected**

5a. 
$$8\frac{1}{2}$$
 km = 8,500m; 5,000m = 5km;

$$1 \text{km} = 1,000 \text{m}; 250 \text{m} = \frac{1}{4} \text{km}$$

6a. False, 
$$\frac{1}{10}$$
 of 9,000m is 900m which is

less than 1km.

8a. 
$$5\frac{1}{2}$$
 km

#### **Expected**

5b. 9,000m = 9km; 3,250m = 
$$3\frac{1}{4}$$
km;

$$7\frac{1}{2}$$
 km = 7,500m; 4km = 4,000m

6b. True

7b. 7,000m

8b. 1,500m

#### **Greater Depth**

9a. 4,750m = 
$$4\frac{3}{4}$$
km;  $9\frac{3}{4}$ km = 9,750m;

$$7\frac{1}{4}$$
 km = 7,250m; 5,500m =  $5\frac{1}{2}$  km

10a. True

11a. 3,000m

12a. 3,250m

#### **Greater Depth**

9b. 
$$6\frac{1}{2}$$
km = 6,500m; 2,250m =  $2\frac{1}{4}$ km;

$$8,500m = 8 \frac{1}{2} \text{km}; 8 \frac{3}{4} \text{km} = 8,750m$$

10b. False, 
$$1\frac{1}{4}$$
 km equals 1,250m which is

more than 1,000m.

11b. 
$$\frac{3}{4}$$
 of 9km

12b. 
$$1\frac{3}{4}$$
 km