Varied Fluency
Step 2: Kilometres

National Curriculum Objectives:

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

Differentiation:

Developing Questions to support converting metres and kilometres using whole units.
Expected Questions to support converting metres and kilometres using half and whole units.
Greater Depth Questions to support converting metres and kilometres using quarter, half, three-quarter and whole units.

More resources which follow the same small steps as White Rose.

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

Kilometres

1a. Match up the equal distances.

3km
7,000m
4,000m
6km

4km
6,000m
3,000m
7km

4   VF

2a. True or false?

$$6km < 3,000m$$

4   VF

3a. Which is the odd one out?

12,000m   9km   8,000m

9,000m   12km

4   VF

4a. Complete the part whole model.

10km

3,000m   ___ km

4   VF

Kilometres

1b. Match up the equal distances.

9,000m
2km
1,000m
5km

1km
5,000m
2,000m
9km

4   VF

2b. True or false?

$$5,000m > 2km$$

4   VF

3b. Which is the odd one out?

3km   6km   3,000m

6,000m   13km

4   VF

4b. Complete the part whole model.

4,000m

1km   ___ m

4   VF

Varied Fluency – Kilometres – Year 4 Developing
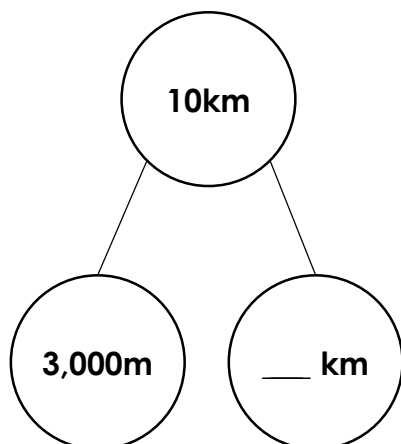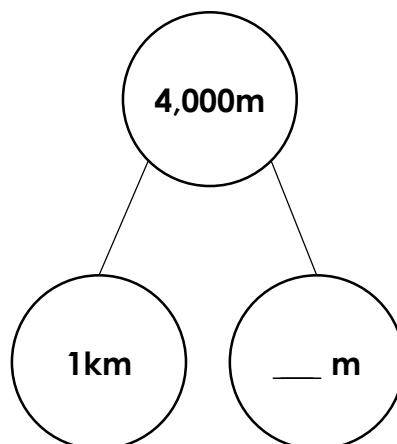
Kilometres

5a. Match up the equal distances.

$8\frac{1}{2}$ km
5,000m
1km
500m

$\frac{1}{2}$ km
1,000m
8,500m
5km

4 VF

5b. Match up the equal distances.

9,000m
3,500m
$7\frac{1}{2}$ km
4km

$3\frac{1}{2}$ km
4,000m
9km
7,500m

4 VF

6a. True or false?

$$4\text{km} < 4{,}000\text{m}$$

4 VF

6b. True or false?

$$11{,}500\text{m} < 11\text{km}$$

4 VF

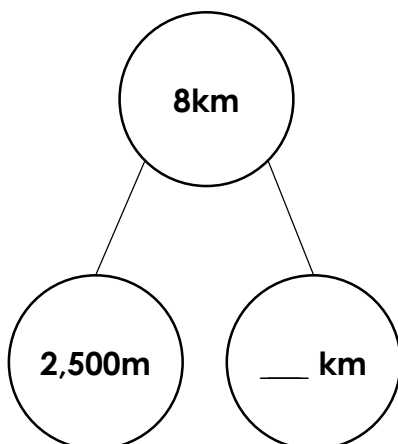**7a. Which is the odd one out?**

1km	1,500m	5,000m

5km	1,000m

4 VF

7b. Which is the odd one out?

$13\frac{1}{2}$ km	14,000m	14km

13,500m	13,000m

4 VF

8a. Complete the part whole model.

8km

2,500m   ___ km

4 VF

8b. Complete the part whole model.

6,500m

4km   ___ m

4 VF

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Varied Fluency – Kilometres – Year 4 Expected
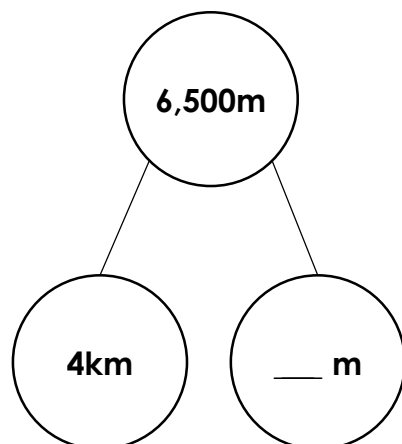
Kilometres

9a. Match up the equal distances.

4,750m	$5\frac{1}{2}$ km
$9\frac{3}{4}$ km	7,250m
$7\frac{1}{4}$ km	9,750km
5,500m	$4\frac{3}{4}$ km

4   VF

9b. Match up the equal distances.

$15\frac{1}{2}$ km	$2\frac{1}{4}$ km
2,250m	$22\frac{1}{2}$ km
22,500m	8,750m
$8\frac{3}{4}$ km	15,500m

4   VF

10a. True or false?

$$7km < 7,250m$$

4   VF

10b. True or false?

$$11,250m < 11km$$

4   VF

11a. Which is the odd one out?

18,250m   13,000m $13\frac{1}{2}$ km
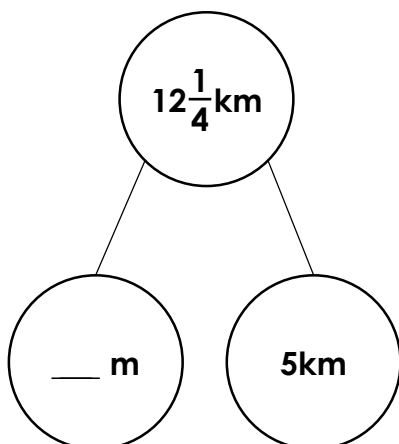
13,500m $18\frac{1}{4}$ km

4   VF

11b. Which is the odd one out?

9,750m   6,250m $9\frac{3}{4}$ km
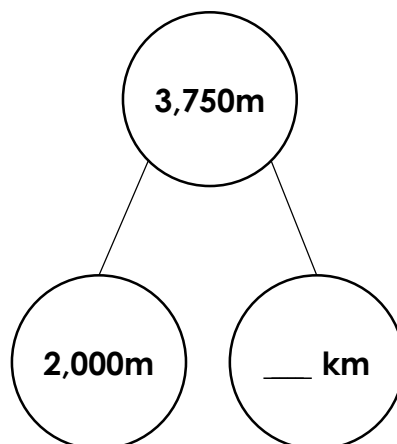
$6\frac{3}{4}$ km $6\frac{1}{4}$ km

4   VF

12a. Complete the part whole model.

$12\frac{1}{4}$ km

___ m   5km

4   VF

12b. Complete the part whole model.

3,750m

2,000m   ___ km

4   VF

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Varied Fluency – Kilometres – Year 4 Greater Depth

Varied Fluency
Kilometres

Developing

1a. 3km and 3,000m; 7,000m and 7km; 4,000m and 4km; 6km and 6,000m

2a. False, 6km is bigger.

3a. 8,000m

4a. 7km

Expected

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

6a. False, they are equal.

7a. 1,500m

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

Greater Depth

9a. 4,750m and $4\frac{3}{4}$ km; $9\frac{3}{4}$ km and 9,750m; $7\frac{1}{4}$ km and 7,250m; 5,500m and $5\frac{1}{2}$ km

10a. True, 7,250m is bigger.

11a. 13,000m

12a. 7,250m

Developing

1b. 9,000m and 9km; 2km and 2,000m; 1,000m and 1km; 5km and 5,000m

2b. True, 5,000m is bigger.

3b. 13km

4b. 3,000m

Expected

5b. 9,000m and 9km; 3,500m and $3\frac{1}{2}$ km; $7\frac{1}{2}$ km and 7,500m; 4km and 4,000m

6b. False, 11,500m is bigger.

7b. 13,000m

8b. 2,500m

Greater Depth

9b. $15\frac{1}{2}$ km and 15,500m; 2,250m and $2\frac{1}{4}$ km; 22,500m and $22\frac{1}{2}$ km; $8\frac{3}{4}$ km and 8,750m

10b. False, 11,250m is bigger.

11b. $6\frac{3}{4}$ km

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

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Varied Fluency – Kilometres ANSWERS