Homework/Extension 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.

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Homework/Extension – Kilometres – Teaching Information

<u>Kilometres</u>

1. Complete the following calculations. Don't forget to use a unit of measurement in the answer! 7km 2,000m Α. B. 3,500m 3km + $- 3\frac{1}{2}$ km 5,000m C. HW/Ext 2. Four children swam for an hour. The results of how far they swam are shown in the table below. $1\frac{1}{2}$ km James Aaron 2,500m Order the distances swam from shortest to furthest in metres. Ellie 1km Charlotte 2km Shortest **Furthest** 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 HW/Ext

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Homework/Extension - Kilometres - Year 4 Developing

<u>Kilometres</u>



Is she correct? Explain your answer.

RPS HW/Ext

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Homework/Extension – Kilometres – Year 4 Expected

<u>Kilometres</u>

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



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

Malcolm	6 <u>-6</u> km
Julie	Six and a half kilometres
Oliver	6 <u>3</u> km
Ruby	Half of 12km



Order the distances walked from shortest to furthest in metres.



HW/Ext

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



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Homework/Extension - Kilometres - Year 4 Greater Depth

Homework/Extension <u>Kilometres</u>

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. 1,000m 500m = 500m.

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 3,000m 250m = 2,750m.

<u>Greater Depth</u>

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- 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 2,550m + 200m = 2,750m or $2\frac{3}{4}$ km because two tenths of a kilometre is 200m.



Homework/Extension – Kilometres ANSWERS