



# Treasure Trove

I can convert metric measures involving length (kilometres and metres).



Here are some mysterious directions to find buried treasure. Some of the directions have been written in metres and some in kilometres.

Change the measurements in kilometres to metres and the measurements in metres to kilometres. Write the conversions on the chart below.

Walk 1525m west until you reach the Green Lake. Turn northwest and walk for another 2275m. You will find yourself at Stinky Swamp – don't get stuck in the mud! Turn west and walk a further 3.759km. Here you will meet an Angry Alligator. Hurry north for 6923m, where you will be met by the Talking Toucan. Follow the flight of the Talking Toucan for 4.225km. Then turn left and walk for 1.2km. You will now be at the mouth of a large cave. Walk into the cave for 1206m. If you have followed these directions carefully, you will find a treasure chest. You are about to become very rich!

Remember: To convert from kilometres to metres, multiply by 1000. To convert metres to kilometres, divide by 1000.

- 1) Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:

Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
3.759km		2275m	
4.225km		6923m	
	1525m	1206m	



2) Use  $<$  or  $>$  to compare these measurements:

8756m	6.342km	7.841km	2560m	5339m	5.783km
9.875km	9102m	5.443km	5100m	3.2km	4100m
2.3km	2100m	3km	3715m	6800m	6.3km

3) Order these measurements from shortest to longest:

5.133km                      9.5km                      5000m                      1.8km                      2700m

<b>Shortest</b>	←—————→				<b>Longest</b>

4) It is 3.755 km from the Stinky Swamp to the Angry Alligator. However, the explorers took a shortcut and cut out 1522m from their journey. How far did they end up walking? Write your answer in metres.

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5) It was 6123m between the Talking Toucan and the Angry Alligator, but the Talking Toucan flew 2.602km further away. What is the distance between them now? Write your answer in kilometres.

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# Treasure Trove Answers

Question	Answer			
1.	Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:			
	Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
	3.759km	<b>3759m</b>	2275m	<b>2.275km</b>
	4.225km	<b>4225m</b>	6923m	<b>6.923km</b>
	<b>1.525km</b>	1525m	1206m	<b>1.206km</b>
2.	Use < or > to compare these measurements:			
	8756m > 6.342km	7.841km > 2560m	5339m < 5.783km	
	9.875km > 9102m	5.443km > 5100m	3.2km < 4100m	
	2.3km > 2100m	3km < 3715m	6800m > 6.3km	
3.	Order these measurements from shortest to longest:			
	Shortest	←————→		Longest
	<b>1.8km</b>	<b>2700m</b>	<b>5000m</b>	<b>5.133km</b>
				<b>9.5km</b>
4.	It is 3.755 km from the Stinky Swamp to the Angry Alligator. However, the explorers took a shortcut and cut out 1522m from their journey. How far did they end up walking? Write your answer in metres.			
	<b>2233m</b>			
5.	It was 6123m between the Talking Toucan and the Angry Alligator, but the Talking Toucan flew 2.602km further away. What is the distance between them now? Write your answer in kilometres.			
	<b>8.725km</b>			



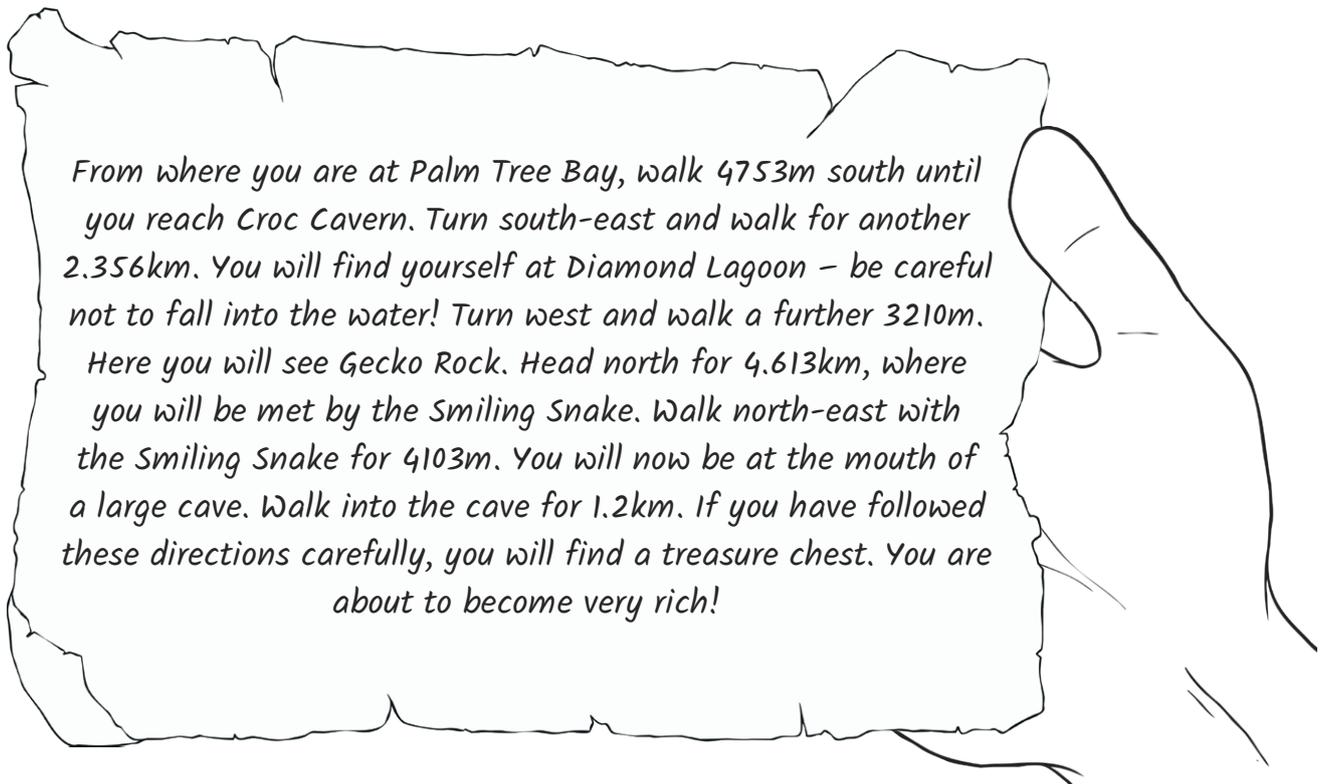
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Here are some mysterious directions to find buried treasure. Some of the directions have been written in metres and some in kilometres.

Change the measurements in kilometres to metres and the measurements in metres to kilometres. Write the conversions on the chart below.



- 1) Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:

Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
2.356km		4753m	
4.613km		3210m	
1.2km		4103m	



2) Use  $<$  or  $>$  to compare these measurements:

8756m	6.342km	7.841km	2560m	2.3km	2300m
3km	3715m	3.2km	4100m	6800m	6.3km
4.35km	4350m	3.048km	3048m	2.5km	2005m

3) Order these measurements from shortest to longest:

4.25km                      2075m                      4255m                      2.75km                      6km

Shortest	←—————→				Longest

4) In the table below, James has converted four measurements from kilometres to metres. However, Lucy says he has got some of them wrong. Decide whether each measurement is right or wrong and give it a tick or a cross. If it is wrong, write the correct measurement in the table next to it.

Kilometres	Metres	X or ✓	Correct Measurement
4.744km	<b>4744m</b>		
2.356km	<b>23.56m</b>		
3.21km	<b>321m</b>		
4.63km	<b>4630m</b>		

5) It is 4613m from Gecko Rock to the Smiling Snake. However, the explorers got slightly lost and ended up walking 1.35km further than they needed to. How far did they end up walking? Give your answer in metres.

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# Treasure Trove Answers

Question	Answer			
1.	Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:			
	Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
	2.356km	<b>2356m</b>	4753m	<b>4.753km</b>
	4.613km	<b>4613m</b>	3210m	<b>3.21km</b>
	1.2km	<b>1200m</b>	4103m	<b>4.103km</b>
2.	Use < or > to compare these measurements:			
	8756m > 6.342km	7.841km > 2560m	2.3km = 2300m	
	3km < 3715m	3.2km < 4100m	6800m > 6.3km	
	4.35km = 4350m	3.048km = 3048m	2.5km > 2005m	
3.	Order these measurements from shortest to longest:			
	Shortest	←—————→		Longest
	<b>2075m</b>	<b>2.75km</b>	<b>4.25km</b>	<b>4255m</b>
				<b>6km</b>
4.	Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:			
	Kilometres	Metres	X or ✓	Correct Measurement
	4.744km	<b>4744m</b>	✓	
	2.356km	<b>23.56m</b>	X	<b>2356m</b>
	3.21km	<b>321m</b>	X	<b>3210m</b>
	4.63km	<b>4630m</b>	✓	
5.	It is 4613m from Gecko Rock to the Smiling Snake. However, the explorers got slightly lost and ended up walking 1.35km further than they needed to. How far did they end up walking? Give your answer in metres.			
	<b>5963m</b>			



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Here are some mysterious directions to find buried treasure. Some of the directions have been written in metres and some in kilometres.

Change the measurements in kilometres to metres and the measurements in metres to kilometres. Write the conversions on the chart below.

*From where you are at White Shark Bay, walk 2.212km south until you reach the bottom of Monster Mountain. Turn north-west and walk for another 4370m. You will find yourself at Murky Marsh – don't get stuck in the mud! Turn to face east and walk a further 1.9km. Here you will find the Spiky Spider Tree. Turn north-west and walk for 3005m, where you will be met by the Terrible Turtle. Walk east with the Terrible Turtle for 6.95km. You will reach a cluster of coconut trees. You will now be at the mouth of a large cave. Walk into the cave for 1039m. If you have followed these directions carefully, you will find a treasure chest. You are about to become very rich!*



- 1) Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:

Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
2.212km		4370m	
1.9km		3005m	
6.95km		1039m	



2) Order these measurements from shortest to longest:

3095m

3.9km

3km

3950m

390m

3.09km

<b>Shortest</b>		←		→	<b>Longest</b>

3) In the table below, James has converted four measurements between kilometres and metres. However, Lucy says he has got some of them wrong. Decide whether each measurement is right or wrong and give it a tick or a cross. If it is wrong, write a short note for him explaining the mistake he made and how he could get it right next time.

Kilometres	Metres	X or ✓	Notes
<i>3.5km</i>	3005m		
1.9km	<i>1900m</i>		
6.9km	<i>690m</i>		
<i>9.090km</i>	9090m		

4a) It is 4370m from Monster Mountain to the Murky Marsh. However, on the way there, the explorers got slightly lost and ended up walking 1.02km further than they needed to. How far did they end up walking on the way there? Give your answer in kilometres.

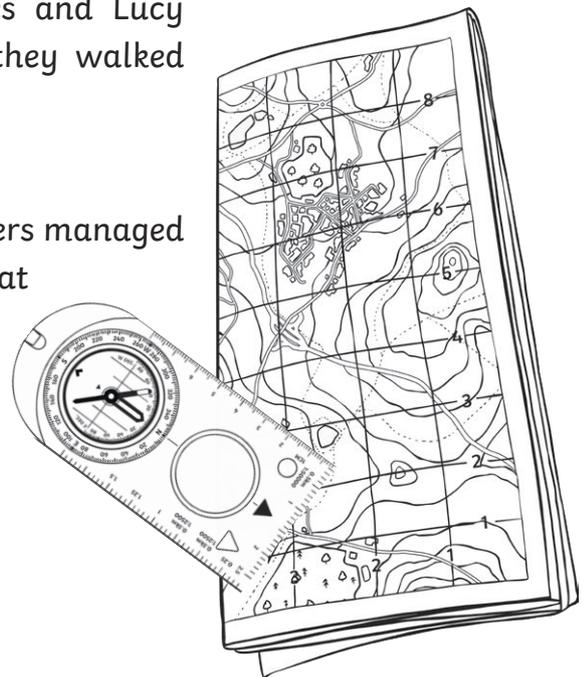
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b) When they had followed the directions all the way from White Shark Bay to the cave containing the treasure chest, how far had James and Lucy walked in total? (Don't forget the extra distance they walked because they got lost.) Give your answer in metres.

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c) On the way back to White Shark Bay, the two explorers managed not to get lost. Instead, they found a shortcut that made their journey 3.5km shorter. Find the difference, in metres, between the distance they walked on the way there and the way back.

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# Treasure Trove Answers

Question	Answer			
1.	Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:			
	Measurement (km)	Measurement (m)	Measurement (m)	Measurement (km)
	2.212km	<b>2212m</b>	4370m	<b>4.37km</b>
	1.9km	<b>1900m</b>	3005m	<b>3.005km</b>
	6.95km	<b>6950m</b>	1039m	<b>1.039km</b>
2.	Order these measurements from shortest to longest:			
	Shortest		←————→	Longest
	<b>390m</b>	<b>3km</b>	<b>3.09km</b>	<b>3095m</b>
			<b>3.9km</b>	<b>3950m</b>
3.	Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:			
	Kilometres	Metres	<b>X or ✓</b>	Notes
	<b>3.5km</b>	3005m	<b>X</b>	<b>Answer explains that <math>3005 \div 1000 = 3.005\text{km}</math> and shows understanding that all the zeros between the decimal place and the last digit need to be kept as placeholders.</b>
	1.9km	<b>1900m</b>	<b>✓</b>	
	6.9km	<b>690m</b>	<b>X</b>	<b>Answer explains that <math>6.9 \times 1000 = 6900\text{m}</math>.</b>
	<b>9.090km</b>	9090m	<b>X</b>	<b>Answer explains that <math>9090 \div 1000 = 9.09\text{km}</math> and shows understanding that, after the decimal place, we do not need to write any zeros after the last digit.</b>
4.				
a	<b>5.390km</b>			
b	<b>20 496m</b>			
c	<b>4520m</b>			