Halls Head Community College	Mathematics Learning Area	
Learning for life	**Measurement**	m62w2
	Substrand: Indirect Measurement	

In the space provided write a convincing explanation of how you solved the problem. Remember to show clearly all the mathematics used. **The answer alone is not enough**!

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Watching the wheels go 'round and 'round. - Problem

The front wheel on the penny-farthing bicycle has a circumference of 200 centimetres.

If you were describing the circumference in metres, what would it be?
How many times would the wheel turn if the bicycle travels one kilometre?

The back wheel on the cycle has a 50 centimetre circumference.
If you were describing this circumference in metres, what would it be?
How many times would this wheel turn if the bicycle travels one kilometre?

Would the large or the small tyre get more wear and tear on a long journey?
If you took just than half of the circumference of a tyre, would it be greater or less than the diameter of the tyre?

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Reflection:

- Write down some of the difficulties that you had to overcome to solve this problem.

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