

## Explore Length Conversions

1. Compare the SI measure and the imperial measure of the same four items. Record the measures in the table.

Item	SI Measure (in Centimetres)	Imperial Measure (in Inches)	Divide SI by Imperial Measure

2. a) For each item, divide the SI measure by the imperial measure.  
b) Enter each answer from part a) into the last column of the table.
3. a) Is there a pattern to your answers in #2? YES NO Explain.

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- b) What can you conclude about the approximate number of centimetres in one inch? \_\_\_\_\_

4. Extend a measuring tape to 100 inches.

a) How many centimetres are equivalent to 100 inches? \_\_\_\_\_

b) Return to #3. What is a more accurate SI conversion for 1 inch? \_\_\_\_\_

### 5. Reflect

a) How can you use your answer in #4 to help you convert a measurement in inches to centimetres?

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b) How can you use it to help you convert a measurement in centimetres to inches?

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### 6. Extend Your Understanding

Convert each measurement to the alternative system. Show your strategy.

a) 52"

b) 165 cm

