MATH UP Name:_____ Date: _____

AL

Length

Concept Questions

1. What unit would you choose to compare each set of lengths below? List two reasonable alternative units for each comparison and explain your choices.

a) Comparing the length of your longest finger to the length of your shortest finger

b) Comparing the distance you can walk in half an hour to the distance your friend can walk in half an hour

2. Which description of each length would you use? Why?

a) 4030 mm or 4.03 m

b) 0.04 km or 40 m

c) 10.4 cm or 104 mm

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3. Do you think each measurement is precise? Why or why not?

a) 312 mm

b) 4.12 m

c) 5.0 km

4. Describe two situations in which an estimated length measurement might make more sense than a precise length measurement.

5. Suppose each measurement is converted to a different unit. Will the number of new units be greater or less than the number of original units?

a) 4.25 cm = _____ mm

b) 4.25 cm = _____ m

c) 3 m = _____ km

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6. Sketch a shape that meets each set of criteria. Label all the side lengths of your shape. You do not need to make your shape actual size.

a) An equilateral triangle with a perimeter of 30 cm

b) A rectangle with a perimeter of 42 cm

c) A quadrilateral with no equal side lengths and a perimeter of 40 cm

d) A regular hexagon with a perimeter of 33 cm

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