

Luna's Space Adventure

Name _____

Grade 5 · Converting measurements · 5.MD.A.1

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Big to small Multiply.

$4 \text{ ft} = \boxed{} \text{ in}$

$7 \text{ yd} = \boxed{} \text{ ft}$

$2.8 \text{ L} = \boxed{} \text{ mL}$

$5.3 \text{ km} = \boxed{} \text{ m}$

$5 \text{ gal} = \boxed{} \text{ qt}$

$7 \text{ lb} = \boxed{} \text{ oz}$

Small to big Divide. Decimals are fine.

$46 \text{ cm} = \boxed{} \text{ m}$

$650 \text{ m} = \boxed{} \text{ km}$

$850 \text{ mL} = \boxed{} \text{ L}$

$3800 \text{ g} = \boxed{} \text{ kg}$

Story time

- ① Zed runs 6 laps of a 500 m track. How many kilometers is that?

.....

_____ km

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Big to small Multiply.

$$4 \text{ ft} = \boxed{48} \text{ in}$$

$$2.8 \text{ L} = \boxed{2800} \text{ mL}$$

$$5 \text{ gal} = \boxed{20} \text{ qt}$$

$$7 \text{ yd} = \boxed{21} \text{ ft}$$

$$5.3 \text{ km} = \boxed{5300} \text{ m}$$

$$7 \text{ lb} = \boxed{112} \text{ oz}$$

Small to big Divide. Decimals are fine.

$$46 \text{ cm} = \boxed{0.46} \text{ m}$$

$$850 \text{ mL} = \boxed{0.85} \text{ L}$$

$$650 \text{ m} = \boxed{0.65} \text{ km}$$

$$3800 \text{ g} = \boxed{3.8} \text{ kg}$$

Story time

- ① Zed runs 6 laps of a 500 m track. How many kilometers is that?

$$6 \times 500 \div 1000 = 3$$

3 km

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GUIDE

① What this sheet practises

Converting between units in the same system, like km to m or g to kg, including answers with decimals and short story problems.

② A problem from the sheet, worked out

Big to small Multiply.

$$4 \text{ ft} = \boxed{48} \text{ in}$$

$$7 \text{ yd} = \boxed{21} \text{ ft}$$

$$2.8 \text{ L} = \boxed{2800} \text{ mL}$$

$$5.3 \text{ km} = \boxed{5300} \text{ m}$$

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How: From a bigger unit to a smaller one, multiply: 1 km = 1,000 m, so 6.3 km = 6,300 m. From smaller to bigger, divide: 240 g = 0.24 kg.

③ Words to know

convert change to another unit

kilo- 1,000 of: 1 kilogram = 1,000 grams

centi- a hundredth: 100 centimeters = 1 meter

milli- a thousandth: 1,000 milliliters = 1 liter

④ Watch for

- Dividing when going to a smaller unit, so 6.3 km comes out as 0.0063 m.
- Using 100 for every metric change: km to m is 1,000, but m to cm is 100.
- Using 10 for customary units: 1 foot is 12 inches and 1 pound is 16 ounces.

⑤ Where it fits

BEFORE

4.MD.A.1

Know how units compare in size and convert within one system.

THIS SHEET

5.MD.A.1

Convert between units in the same measurement system.

⑥ Helping at home

Read labels together: a 2 L bottle is how many mL? A 500 g box is how many kg? Say each answer with its unit.