How Big? Converting Units

Math Grade 4: length, weight, volume and time



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Today we will...

WE ARE LEARNING TO

- Know how km, m, cm compare in size
- Know how kg-g, lb-oz, l-ml, hr-min-sec compare
- Pick the right unit and convert up or down

SUCCESS LOOKS LIKE

- ✓ I can order units from small to big
- ✓ I can multiply big to small
- ✓ I can divide small to big



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What Do We Measure?

Length

We use km, m, and cm for trips and pencils.

Weight

We use kg, g and lb, oz for heavy or light.

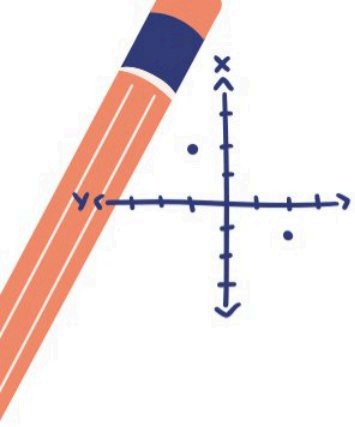
Volume

We use l and ml for jugs and spoons.

Time

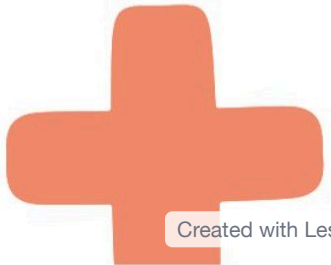
We use hr, min, and sec for movies and races.

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Small to Big in a Flash

1. 1 kilometer = 1,000 meters; 1 meter = 100 centimeters
2. 1 kilogram = 1,000 grams; 1 pound = 16 ounces
3. 1 liter = 1,000 milliliters for drinks and jugs
4. 1 hour = 60 minutes; 1 minute = 60 seconds



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Which Would You Pick?

Which conversion do you want to try first?

- **A** 3 km to meters
- **B** 2 hours to minutes
- **C** 5 pounds to ounces
- **D** 4 liters to milliliters



Vote with your hands, then explain why.

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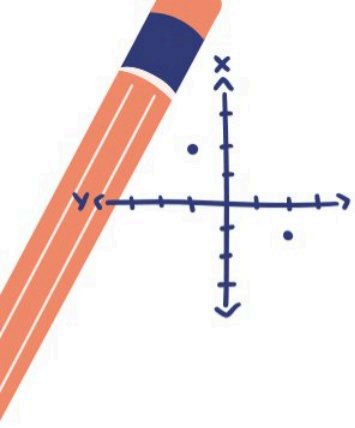
Watch: Converting in Grade 4



▶ 0:00 – 4:40

- Listen for when to multiply or divide
- Spot km, m, cm and kg, g in examples

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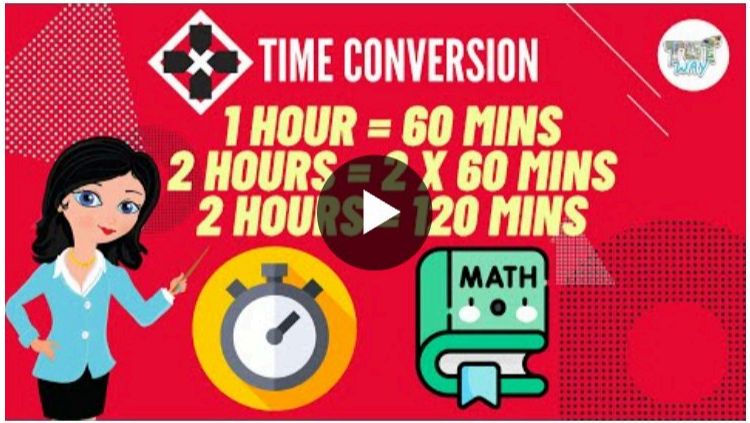


BIG IDEA

Big unit to small unit? Multiply. Small to big? Divide.

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Watch: Hours, Minutes, Seconds



▶ 0:00 – 4:40

- Count how 1 hour becomes 60 minutes
- Watch how 1 minute becomes 60 seconds

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Your task

In pairs, solve quick conversions and order units small to big.

1. Convert: 2 km to m, 3 kg to g, 2 lb to oz, 2 l to ml
2. Convert back: 300 cm to m, 120 min to hr
3. Order each group small to big and check

10 min

In pairs

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Pick the Best Unit

Length

Pencil in cm, room in m, trip in km.

Mass

Paper clip in g, student in kg.

Weight

Apple in oz, dog in lb.

Volume

Spoon in ml, jug in l.

Time

Race in sec, lesson in min, trip in hr.

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What could this be?

It says 1 l, but marks say 250, 500, 750. What are small marks?

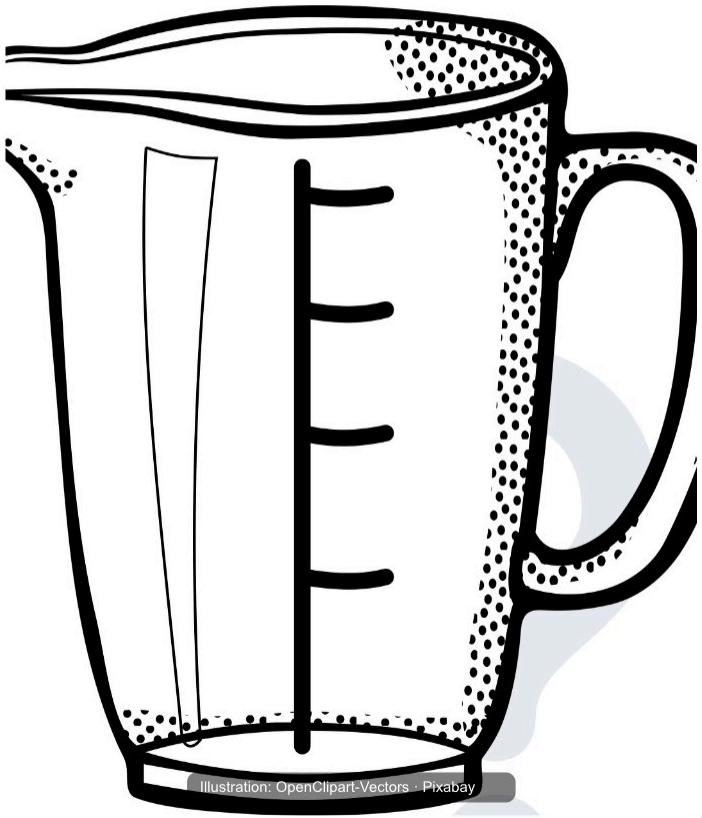


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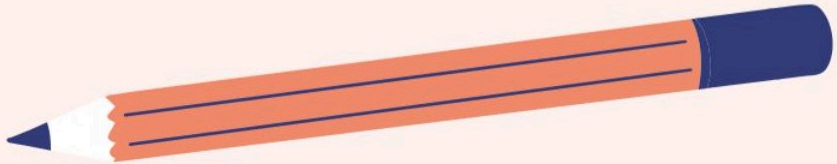
True or false?

5 m = 500 cm

1 kg = 1,000 g

2 l = 200 ml

2 lb = 32 oz and 2 hr = 120 min



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