

Measurement Conversions

Unit Test, Form A (page 1 of 2)

Score _____ / 13

1. Write the missing numbers.

$$3.8 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$

$$0.36 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$$

2. Write the missing numbers.

$$920 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

$$86 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$$

3. Fill in the table.

Liters	1	2.6	0.45
Milliliters	1,000		

4. Write $>$, $<$ or $=$ in each circle.

$$1.75 \text{ kg} \bigcirc 1,800 \text{ g}$$

$$2.05 \text{ kg} \bigcirc 2,050 \text{ g}$$

$$3.2 \text{ kg} \bigcirc 3,020 \text{ g}$$

5. Write the missing numbers. Write fractions in simplest form.

$$2 \frac{1}{3} \text{ yd} = \underline{\hspace{2cm}} \text{ ft}$$

$$3 \frac{3}{4} \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$$

6. Write the missing numbers. Write fractions in simplest form.

$$39 \text{ in.} = \underline{\hspace{2cm}} \text{ ft}$$

$$8 \text{ ft} = \underline{\hspace{2cm}} \text{ yd}$$

7. Write the missing numbers. Write fractions in simplest form.

$$1 \frac{3}{4} \text{ tons} = \underline{\hspace{2cm}} \text{ lb}$$

$$1 \frac{1}{2} \text{ gal} = \underline{\hspace{2cm}} \text{ fl oz}$$

8. Write the missing numbers. Write fractions in simplest form.

$$44 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$$

$$10 \text{ pt} = \underline{\hspace{2cm}} \text{ gal}$$

Measurement Conversions

Unit Test, Form A (page 2 of 2)

9. Read the story. Then answer.

A can holds **5 L** of paint. Leo paints **6** boards, and each board uses **450 mL**.
How many milliliters of paint are left?

_____ milliliters

10. Read the story. Then answer.

A cook uses **7 oz** of cheese on each pizza. How many pounds of cheese do **8 pizzas** use?

_____ pounds

11. Write the missing numbers. Then answer the question.

3 weeks = _____ hours

2 hours = _____ seconds

A field trip starts at **9:50 a.m.** and ends at **1:15 p.m.** How long is the trip?

_____ hr _____ min

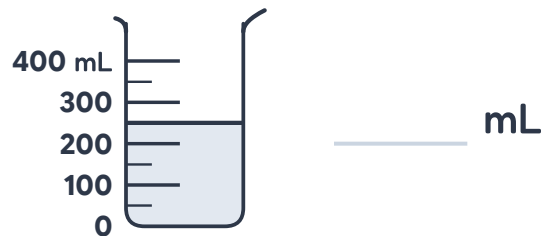
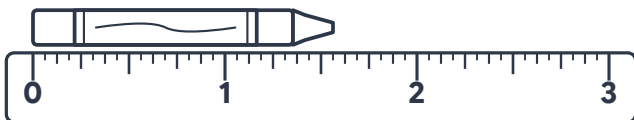
12. Circle the best estimate for each. Then write how much water is in the beaker.

The length of a hiking trail:

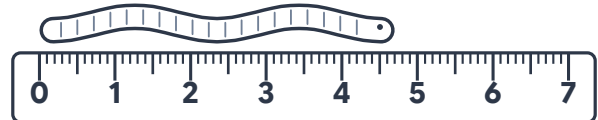
8 cm 8 m 8 km

The mass of a cat:

4 g 4 kg

**13. Measure the crayon to the nearest sixteenth inch and the worm to the nearest millimeter.**

Crayon: _____ inches



Worm: _____ millimeters

Measurement Conversions

Unit Test, Form B (page 1 of 2)

Score _____ / 13

1. Write the missing numbers.

$$5.2 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$

$$0.68 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$$

2. Write the missing numbers.

$$740 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

$$93 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$$

3. Fill in the table.

Liters	1	3.4	0.85
Milliliters	1,000		

4. Write $>$, $<$ or $=$ in each circle.

$$3.08 \text{ kg} \bigcirc 3,080 \text{ g}$$

$$1.35 \text{ kg} \bigcirc 1,400 \text{ g}$$

$$2.7 \text{ kg} \bigcirc 2,070 \text{ g}$$

5. Write the missing numbers. Write fractions in simplest form.

$$6 \frac{1}{3} \text{ yd} = \underline{\hspace{2cm}} \text{ ft}$$

$$4 \frac{1}{2} \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$$

6. Write the missing numbers. Write fractions in simplest form.

$$21 \text{ in.} = \underline{\hspace{2cm}} \text{ ft}$$

$$13 \text{ ft} = \underline{\hspace{2cm}} \text{ yd}$$

7. Write the missing numbers. Write fractions in simplest form.

$$2 \frac{1}{4} \text{ tons} = \underline{\hspace{2cm}} \text{ lb}$$

$$3 \frac{1}{2} \text{ gal} = \underline{\hspace{2cm}} \text{ fl oz}$$

8. Write the missing numbers. Write fractions in simplest form.

$$40 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$$

$$26 \text{ pt} = \underline{\hspace{2cm}} \text{ gal}$$

Measurement Conversions

Unit Test, Form B (page 2 of 2)

9. Read the story. Then answer.

A sack holds **2 kg** of birdseed. Ana fills **4** feeders with **350 g** each. How many grams of birdseed are left?

_____ grams

10. Read the story. Then answer.

Each bottle holds **20 fl oz** of water. How many cups of water do **3** bottles hold?

_____ cups

11. Write the missing numbers. Then answer the question.

5 weeks = _____ **hours**

4 hours = _____ **seconds**

A swim meet starts at **10:45 a.m.** and ends at **1:20 p.m.** How long is the meet?

_____ **hr** _____ **min**

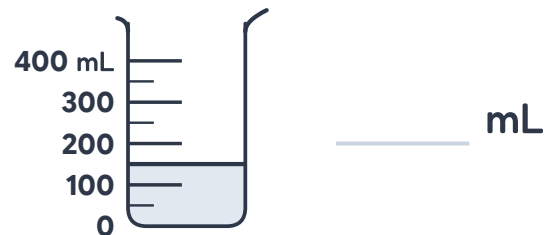
12. Circle the best estimate for each. Then write how much water is in the beaker.

The length of a swimming pool:

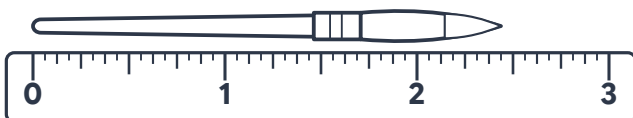
25 cm 25 m 25 km

The mass of an egg:

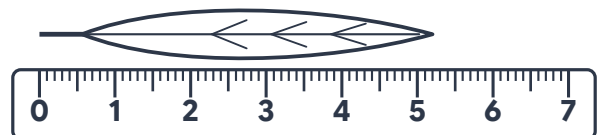
50 g 50 kg



13. Measure the paintbrush to the nearest sixteenth inch and the leaf to the nearest millimeter.



Paintbrush: _____ **inches**



Leaf: _____ **millimeters**

Measurement Conversions

Unit Test, Form A (page 1 of 2)

Score _____ / 13

1. Write the missing numbers.

$$3.8 \text{ km} = \underline{3,800} \text{ m}$$

$$0.36 \text{ m} = \underline{360} \text{ mm}$$

Lesson 10.1 · Metric length

2. Write the missing numbers.

$$920 \text{ cm} = \underline{9.2} \text{ m}$$

$$86 \text{ mm} = \underline{8.6} \text{ cm}$$

Lesson 10.1 · Metric length

3. Fill in the table.

Liters	1	2.6	0.45
Milliliters	1,000	2,600	450

Lesson 10.2 · Metric mass and liquid volume

4. Write >, < or = in each circle.

$$1.75 \text{ kg} \text{ } \textcirc{<} \text{ } 1,800 \text{ g}$$

$$2.05 \text{ kg} \text{ } \textcirc{=} \text{ } 2,050 \text{ g}$$

$$3.2 \text{ kg} \text{ } \textcirc{>} \text{ } 3,020 \text{ g}$$

Lesson 10.2 · Metric mass and liquid volume

5. Write the missing numbers. Write fractions in simplest form.

$$2 \frac{1}{3} \text{ yd} = \underline{7} \text{ ft}$$

$$3 \frac{3}{4} \text{ ft} = \underline{45} \text{ in.}$$

Lesson 10.3 · Customary length

6. Write the missing numbers. Write fractions in simplest form.

$$39 \text{ in.} = \underline{3 \frac{1}{4}} \text{ ft} \text{ or } \underline{\frac{13}{4}} \text{ or } 3.25$$

$$8 \text{ ft} = \underline{2 \frac{2}{3}} \text{ yd} \text{ or } \underline{\frac{8}{3}}$$

Lesson 10.3 · Customary length

7. Write the missing numbers. Write fractions in simplest form.

$$1 \frac{3}{4} \text{ tons} = \underline{3,500} \text{ lb}$$

$$1 \frac{1}{2} \text{ gal} = \underline{192} \text{ fl oz}$$

Lesson 10.4 · Customary weight and capacity

8. Write the missing numbers. Write fractions in simplest form.

$$44 \text{ oz} = \underline{2 \frac{3}{4}} \text{ lb} \text{ or } \underline{\frac{11}{4}} \text{ or } 2.75$$

$$10 \text{ pt} = \underline{1 \frac{1}{4}} \text{ gal} \text{ or } \underline{\frac{5}{4}} \text{ or } 1.25$$

Lesson 10.4 · Customary weight and capacity

Measurement Conversions

Unit Test, Form A (page 2 of 2)

9. Read the story. Then answer.

A can holds 5 L of paint. Leo paints 6 boards, and each board uses 450 mL. How many milliliters of paint are left?

$$5,000 - 6 \times 450 = 5,000 - 2,700 = 2,300$$

2,300 milliliters

Lesson 10.6 · Multi-step conversion stories

10. Read the story. Then answer.

A cook uses 7 oz of cheese on each pizza. How many pounds of cheese do 8 pizzas use?

$$8 \times 7 = 56, 56 \div 16 = 3 \frac{1}{2}$$

Or 3.5 or an equal fraction

3 $\frac{1}{2}$ pounds

Lesson 10.6 · Multi-step conversion stories

11. Write the missing numbers. Then answer the question.

3 weeks = 504 hours

2 hours = 7,200 seconds

A field trip starts at 9:50 a.m. and ends at 1:15 p.m. How long is the trip?

3 hr 25 min

Lesson 10.5 · Units of time and elapsed time

12. Circle the best estimate for each. Then write how much water is in the beaker.

The length of a hiking trail:

8 cm 8 m 8 km

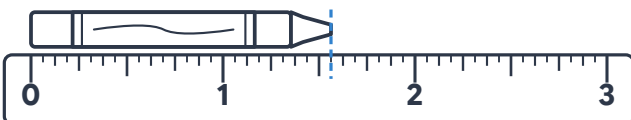
The mass of a cat:

4 g 4 kg

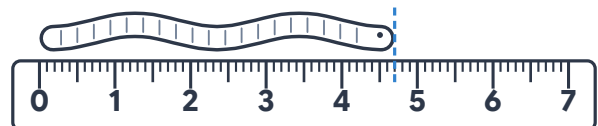


Lesson 10.7 · Choose a unit, estimate and measure

13. Measure the crayon to the nearest sixteenth inch and the worm to the nearest millimeter.



Crayon: 1 $\frac{9}{16}$ inches



Worm: 47 millimeters

Lesson 10.8 · Measure to the sixteenth inch and millimeter

Measurement Conversions

Unit Test, Form B (page 1 of 2)

Score _____ / 13

1. Write the missing numbers.

$$5.2 \text{ km} = \underline{5,200} \text{ m}$$

$$0.68 \text{ m} = \underline{680} \text{ mm}$$

Lesson 10.1 · Metric length

2. Write the missing numbers.

$$740 \text{ cm} = \underline{7.4} \text{ m}$$

$$93 \text{ mm} = \underline{9.3} \text{ cm}$$

Lesson 10.1 · Metric length

3. Fill in the table.

Liters	1	3.4	0.85
Milliliters	1,000	3,400	850

Lesson 10.2 · Metric mass and liquid volume

4. Write >, < or = in each circle.

$$3.08 \text{ kg} \bigcirc = 3,080 \text{ g}$$

$$1.35 \text{ kg} \bigcirc < 1,400 \text{ g}$$

$$2.7 \text{ kg} \bigcirc > 2,070 \text{ g}$$

Lesson 10.2 · Metric mass and liquid volume

5. Write the missing numbers. Write fractions in simplest form.

$$6 \frac{1}{3} \text{ yd} = \underline{19} \text{ ft}$$

$$4 \frac{1}{2} \text{ ft} = \underline{54} \text{ in.}$$

Lesson 10.3 · Customary length

6. Write the missing numbers. Write fractions in simplest form.

$$21 \text{ in.} = \underline{1 \frac{3}{4}} \text{ ft or } \frac{7}{4} \text{ or } 1.75$$

$$13 \text{ ft} = \underline{4 \frac{1}{3}} \text{ yd or } \frac{13}{3}$$

Lesson 10.3 · Customary length

7. Write the missing numbers. Write fractions in simplest form.

$$2 \frac{1}{4} \text{ tons} = \underline{4,500} \text{ lb}$$

$$3 \frac{1}{2} \text{ gal} = \underline{448} \text{ fl oz}$$

Lesson 10.4 · Customary weight and capacity

8. Write the missing numbers. Write fractions in simplest form.

$$40 \text{ oz} = \underline{2 \frac{1}{2}} \text{ lb or } \frac{5}{2} \text{ or } 2.5$$

$$26 \text{ pt} = \underline{3 \frac{1}{4}} \text{ gal or } \frac{13}{4} \text{ or } 3.25$$

Lesson 10.4 · Customary weight and capacity

Measurement Conversions

Unit Test, Form B (page 2 of 2)

9. Read the story. Then answer.

A sack holds 2 kg of birdseed. Ana fills 4 feeders with 350 g each. How many grams of birdseed are left?

$$2,000 - 4 \times 350 = 2,000 - 1,400 = 600$$

600 grams

Lesson 10.6 · Multi-step conversion stories

10. Read the story. Then answer.

Each bottle holds 20 fl oz of water. How many cups of water do 3 bottles hold?

$$3 \times 20 = 60, 60 \div 8 = 7 \frac{1}{2}$$

Or 7.5 or an equal fraction

$7 \frac{1}{2}$ cups

Lesson 10.6 · Multi-step conversion stories

11. Write the missing numbers. Then answer the question.

5 weeks = 840 hours

4 hours = 14,400 seconds

A swim meet starts at 10:45 a.m. and ends at 1:20 p.m. How long is the meet?

2 hr 35 min

Lesson 10.5 · Units of time and elapsed time

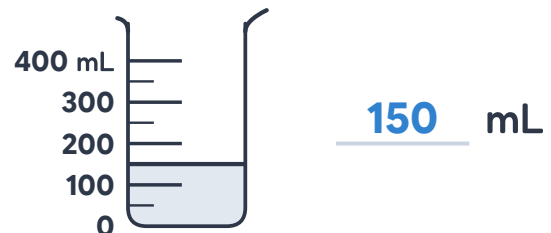
12. Circle the best estimate for each. Then write how much water is in the beaker.

The length of a swimming pool:

25 cm 25 m 25 km

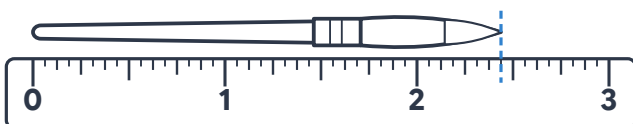
The mass of an egg:

50 g 50 kg

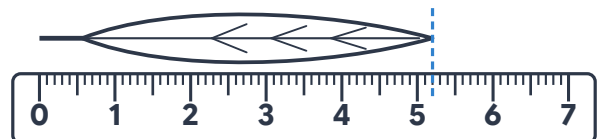


Lesson 10.7 · Choose a unit, estimate and measure

13. Measure the paintbrush to the nearest sixteenth inch and the leaf to the nearest millimeter.



Paintbrush: $2 \frac{7}{16}$ inches



Leaf: 52 millimeters

Lesson 10.8 · Measure to the sixteenth inch and millimeter