

Name _____

Metric Measures



COMMON CORE STANDARD—5.MD.1
Convert like measurement units within a given measurement system.

Convert.

1. $16 \text{ m} = \underline{16,000} \text{ mm}$

number of meters		millimeters in 1 meter		number of millimeters
↓		↓		↓
16	×	1,000	=	16,000

$16 \text{ m} = 16,000 \text{ mm}$

2. $6,500 \text{ cL} = \underline{\hspace{2cm}} \text{ L}$

3. $15 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

4. $3,200 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

5. $12 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

6. $200 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

7. $70,000 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

8. $100 \text{ dL} = \underline{\hspace{2cm}} \text{ L}$

9. $60 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

Compare. Write $<$, $>$, or $=$.

10. $900 \text{ cm} \bigcirc 9,000 \text{ mm}$

11. $600 \text{ km} \bigcirc 5 \text{ m}$

12. $5,000 \text{ cm} \bigcirc 5 \text{ m}$

13. $18,000 \text{ g} \bigcirc 10 \text{ kg}$

14. $8,456 \text{ mL} \bigcirc 9 \text{ L}$

15. $2 \text{ m} \bigcirc 275 \text{ cm}$

Problem Solving



16. Bria ordered 145 centimeters of fabric. Jayleen ordered 1.5 meters of fabric. Who ordered more fabric?

17. Ed fills his sports bottle with 1.2 liters of water. After his bike ride, he drinks 200 milliliters of the water. How much water is left in Ed's sports bottle?

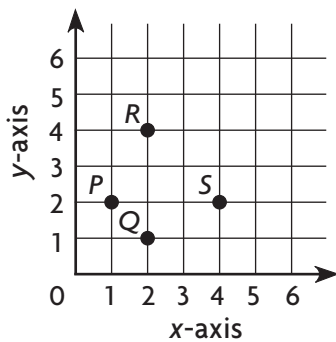
Lesson Check (5.MD.1)

1. Quan bought 8.6 meters of fabric. How many centimeters of fabric did he buy?
2. Jason takes 2 centiliters of medicine. How many milliliters is this?

Spiral Review (5.NF.1, 5.MD.1, 5.G.1)

3. Yolanda needs 5 pounds of ground beef to make lasagna for a family reunion. One package of ground beef weighs $2\frac{1}{2}$ pounds. Another package weighs $2\frac{3}{5}$ pounds. How much ground beef will Yolanda have left over after making the lasagna?
4. A soup recipe calls for $2\frac{3}{4}$ quarts of vegetable broth. An open can of broth contains $\frac{1}{2}$ quart of broth. How much more broth do you need to make the soup?

5. Which point on the graph is located at (4, 2)?



6. A bakery supplier receives an order for 2 tons of flour from a bakery chain. The flour is shipped in crates. Each crate holds eight 10-pound bags of flour. How many crates does the supplier need to ship to fulfill the order?

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Problem Solving • Customary and Metric Conversions



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Solve each problem by making a table.

1. Thomas is making soup. His soup pot holds 8 quarts of soup. How many 1-cup servings of soup will Thomas make?

32 1-cup servings

Number of Quarts	1	2	3	4	8
Number of Cups	4	8	12	16	32

2. Paulina works out with a 2.5-kilogram mass. What is the mass of the 2.5-kilogram mass in grams?

3. Alex lives 500 yards from the park. How many inches does Alex live from the park?

4. Emma uses a 250-meter roll of crepe paper to make streamers. How many dekameters of crepe paper does Emma use?

5. A flatbed truck is loaded with 7,000 pounds of bricks. How many tons of brick are on the truck?

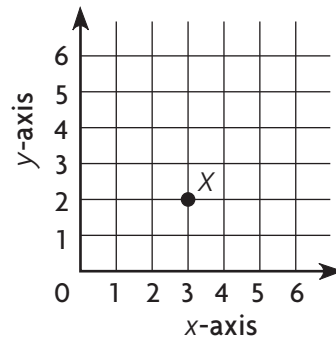
Lesson Check (5.MD.1)

1. At the hairdresser, Jenny had 27 centimeters cut off her hair. How many decimeters of hair did Jenny have cut off?
2. Marcus needs 108 inches of wood to make a frame. How many feet of wood does Marcus need for the frame?

Spiral Review (5.NF.7c, 5.MD.1, 5.G.1)

3. Tara lives 35,000 meters from her grandparents. How many kilometers does Tara live from her grandparents?
4. Dane's puppy weighed 8 ounces when it was born. Now the puppy weighs 18 times as much as it did when it was born. How many pounds does Dane's puppy weigh now?

5. A carpenter is cutting dowels from a piece of wood that is 10 inches long. How many $\frac{1}{2}$ -inch dowels can the carpenter cut?
6. What ordered pair describes the location of point X?



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Elapsed Time



COMMON CORE STANDARD—5.MD.1
Convert like measurement units within a given measurement system.

Convert.

1. 5 days = **120** hr

2. 8 hr = _____ min

3. 30 min = _____ s

Think: 1 day = 24 hours

$$5 \times 24 = 120$$

4. 15 hr = _____ min

5. 5 yr = _____ d

6. 7 d = _____ hr

7. 24 hr = _____ min

8. 600 s = _____ min

9. 60,000 min = _____ hr

Find the start, elapsed, or end time.

10. Start time: 11:00 A.M.

Elapsed time: 4 hours 5 minutes

End time: _____

11. Start time: 6:30 P.M.

Elapsed time: 2 hours 18 minutes

End time: _____

12. Start time: _____

Elapsed time: $9\frac{3}{4}$ hours

End time: 6:00 P.M.

13. Start time: 2:00 P.M.

Elapsed time: _____

End time: 8:30 P.M.

Problem Solving

14. Kiera's dance class starts at 4:30 P.M. and ends at 6:15 P.M. How long is her dance class?

15. Julio watched a movie that started at 11:30 A.M. and ended at 2:12 P.M. How long was the movie?

Lesson Check (5.MD.1)

1. Michelle went on a hike. She started on the trail at 6:45 A.M. and returned at 3:28 P.M. How long did she hike?
2. Grant started a marathon at 8:00 A.M. He took 4 hours 49 minutes to complete the marathon. When did he cross the finish line?

Spiral Review (5.NBT.3b, 5.NF.1, 5.NF.6, 5.MD.1)

3. Molly is filling a pitcher that holds 2 gallons of water. She is filling the pitcher with a 1-cup measuring cup. How many times will she have to fill the 1-cup measuring cup to fill the pitcher?
4. Choose a symbol to make the following statement true. Write $>$, $<$, or $=$.

$$1.625 \bigcirc 1.7$$

5. Adrian's recipe for raisin muffins calls for $1\frac{3}{4}$ cups raisins for one batch of muffins. Adrian wants to make $2\frac{1}{2}$ batches of the muffins for a bake sale. How many cups of raisins will Adrian use?
6. Kevin is riding his bike on a $10\frac{1}{8}$ -mile bike path. He has covered the first $5\frac{3}{4}$ miles already. How many miles does he have left to ride?
