

## أوراق عمل الوحدة 12 data and Measurement منهج ريفيل



### تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الخامس ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2026-04-10 14:46:24

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية الاختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي للمدرس

المزيد من مادة رياضيات:

إعداد: Ibrahim Mohamed

### التواصل الاجتماعي بحسب الصف الخامس



صفحة المناهج الإماراتية على فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

### المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الثالث

مراجعة عامة ومتنوعة لمهارات الوحدة 12: البيانات، أوراق عمل مع واجبات

1

مراجعة الوحدة 13 : وحدة الهندسة

2

عرض بوربوينت شامل لقوانين الفصل الثالث 2026

3

مذكرة قوانين شاملة للفصل الثالث 2026

4

ملخص درس الوحدات المترية 2026

5

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# Unit 12 – L 1

Lesson 12-1

## Convert Customary Units

**Book Page: 167**

 01143153175

مستر / محمد إبراهيم



## Learn

Mikayla is making frozen yogurt.

**How many pints of yogurt does Mikayla need?  
For how many minutes does she need to freeze the yogurt?**

**Frozen Yogurt Recipe**

7 cups yogurt  
1 teaspoon vanilla extract  
 $\frac{2}{3}$  cup sugar  
Mix yogurt, vanilla, and sugar.  
Freeze for  $\frac{3}{4}$  hour.

-----7 cups-----

1	1	1	1	1	1	1	1
1	1	1	1/2				

-----? pints-----

You divide to convert cups to pints.  
 $7 \div 2 = 3\frac{1}{2}$   
 Mikayla needs  $3\frac{1}{2}$  pints of yogurt.

2 cups = 1 pint  
2 pints = 1 quart  
4 quarts = 1 gallon

----- $\frac{3}{4}$  of an hour-----

-----? minutes-----

You multiply to convert hours to minutes.  
 $\frac{3}{4} \times 60 = 45$   
 She needs to freeze the yogurt for 45 minutes.

60 seconds = 1 minute  
60 minutes = 1 hour  
24 hours = 1 day

**Math is... Choosing Tools**

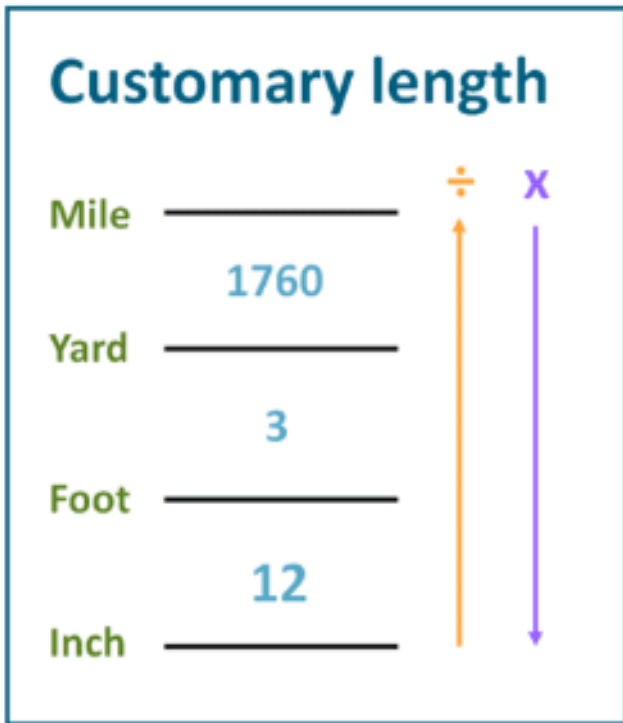
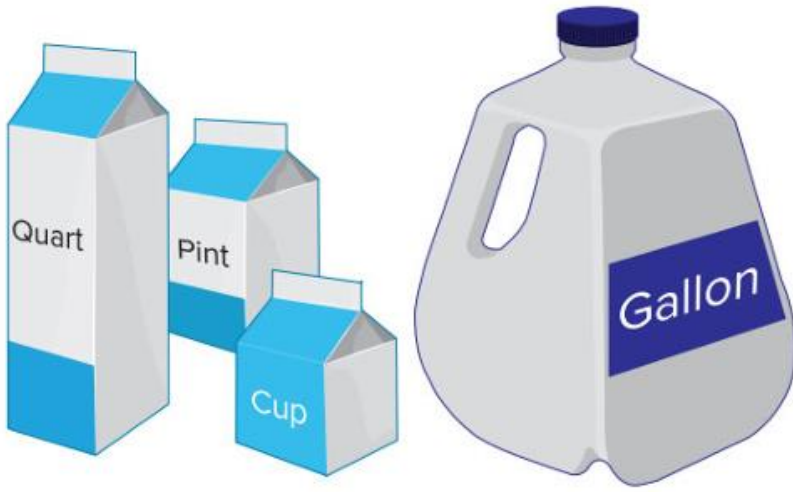
What other tool could you use to convert units?

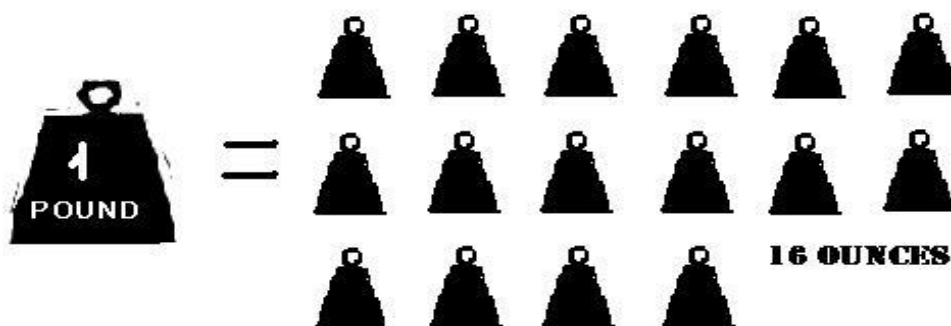
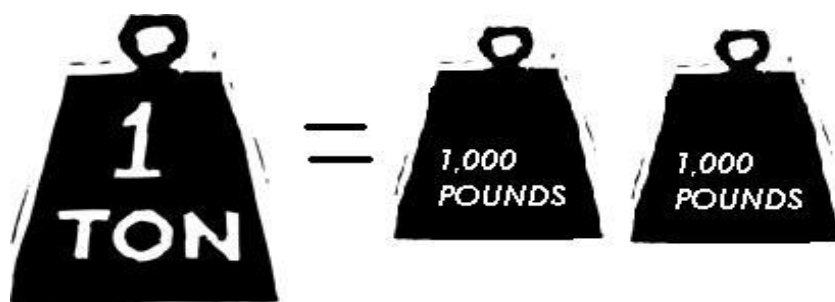
You can use multiplication or division to convert customary units of measurement and units of time.

## Work Together

A school hosts a walk for charity that is 4 miles long. How long is the walk in yards?

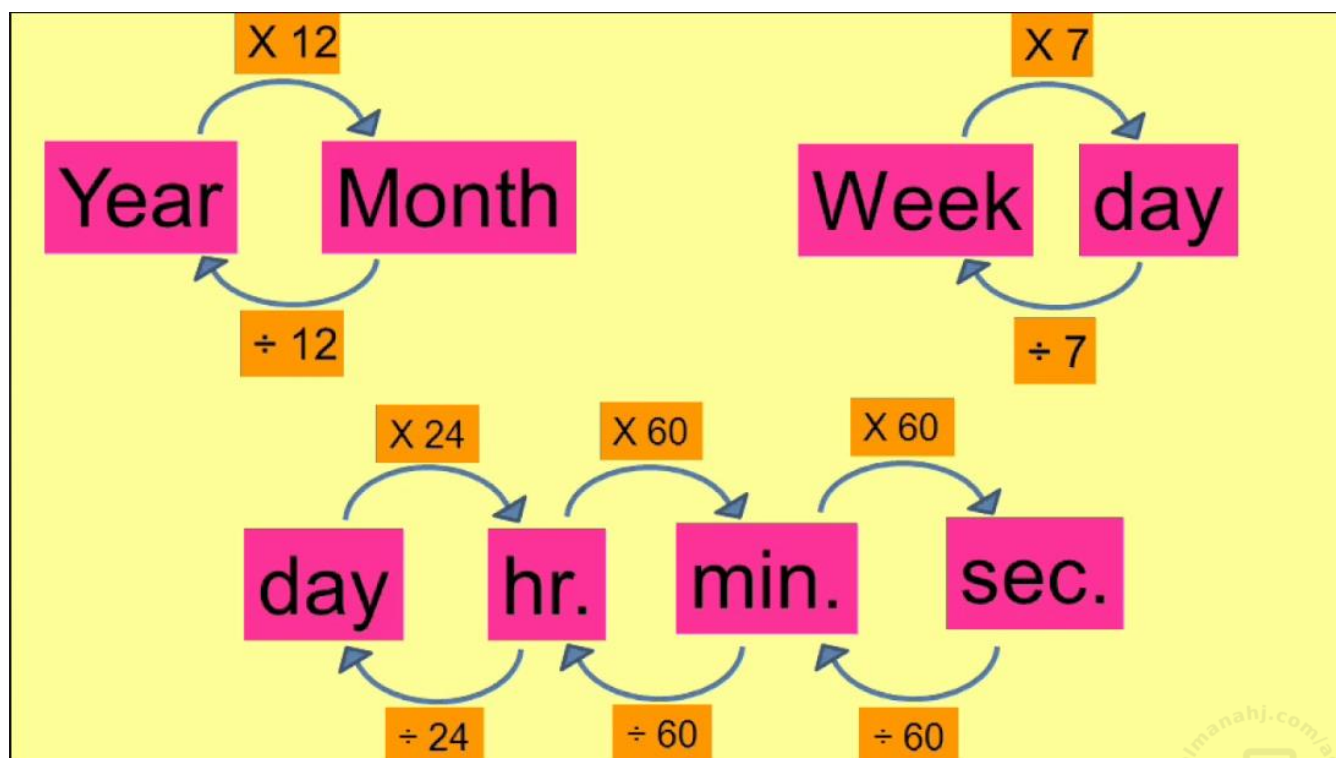






1 pound (lb) = 16 ounces (oz)

1 ton (T) = 2,000 pounds (lb)



Which operation will you use for the conversion?  
Explain your reasoning.

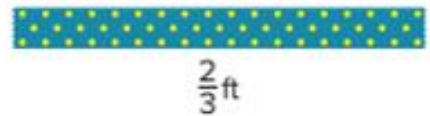
- 1. cups to fluid ounce
- 2. hours to days

Complete the conversion.

- 3. 36 in. = \_\_\_\_\_ ft
- 4. 2 T = \_\_\_\_\_ lb
- 5. 16 pt = \_\_\_\_\_ gal
- 6. 3 yr = \_\_\_\_\_ mo
- 7. 48 oz = \_\_\_\_\_ lb
- 8. 4 hr = \_\_\_\_\_ min

9. A basketball court is 84 feet long. How does 84 feet compare to 30 yards? Explain how you know.

10. James needs this much ribbon for an art project. How many inches of ribbon does he need?



11. During a reading contest, Mike read for a total of 120 hours. How many days is equal to 120 hours?
12. Amy's dog weighs 272 ounces. How many pounds does her dog weigh?
13. Lauren goes for a walk that is  $\frac{7}{8}$  mile long. How many feet did she walk?
14. **STEM Connection** Finn needs to cut a piece of wood that is 144 inches long. He thinks it would be easier to measure the piece of wood in yards. What is the length in yards? Explain your answer.



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## Unit 12 – L 2

Lesson 12-2

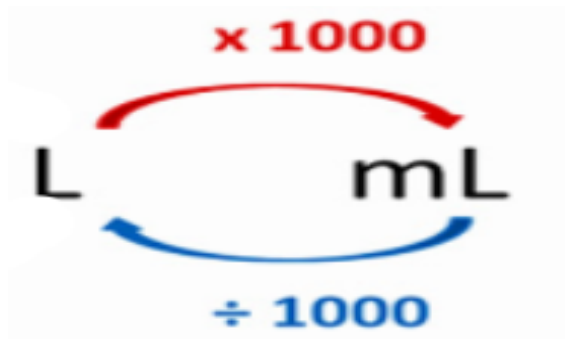
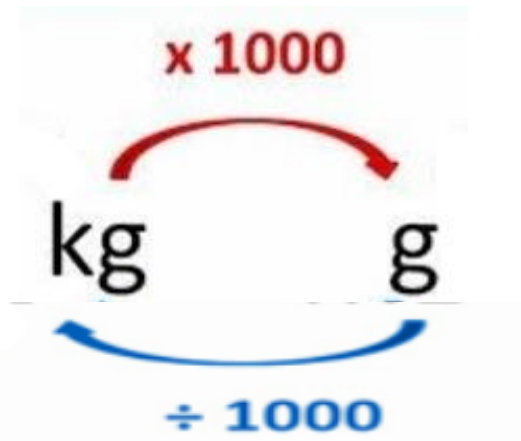
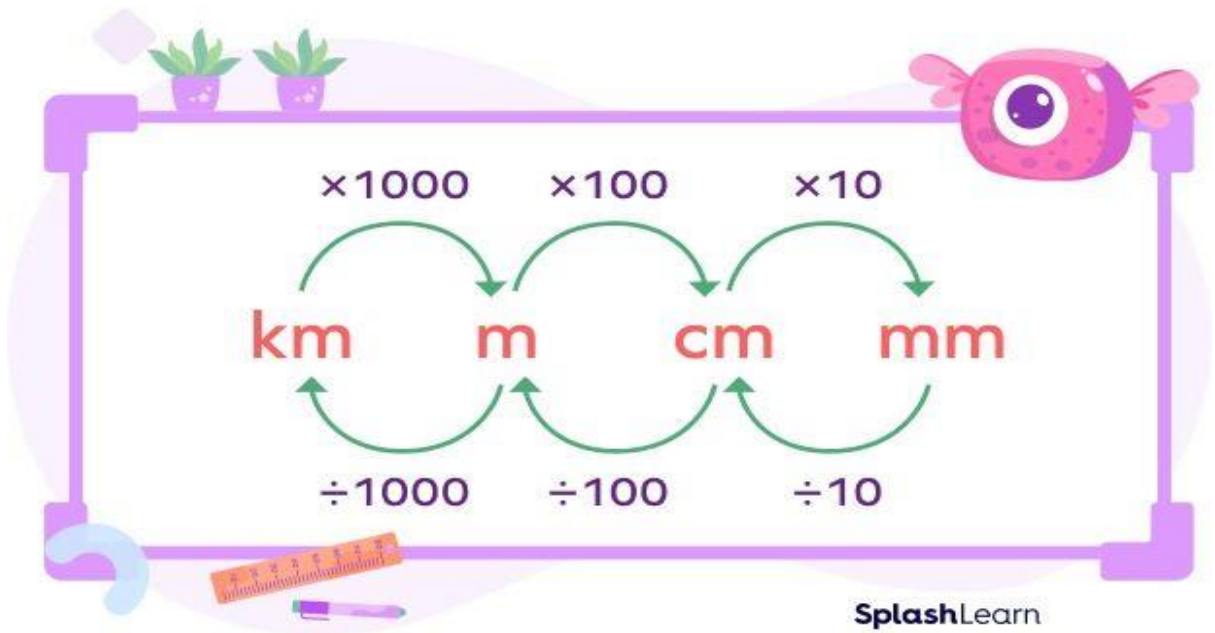
### Convert Metric Units

**Book Page: 171**

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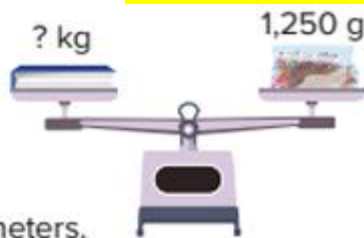
مستتر / محمد إبراهيم





### Learn

The mass of a school district's new textbook must be no more than 1.25 kilograms, and its spine width must be no greater than 2.5 centimeters. Monique measured the mass of a book in grams and its spine width in millimeters.



Can this book be the district's textbook?



Grams are smaller than kilograms.

You divide by a power of 10 to convert grams to kilograms.

$$1250 \div 1000 = 1.25$$

The book has a mass 1.25 kilograms.

$$1,000 \text{ grams} = 1 \text{ kilogram}$$

Centimeters are larger than millimeters.

You multiply by a power of 10 to convert centimeters to millimeters.

$$2.5 \times 10 = 25$$

The book has a thickness of 25 millimeters.

$$\begin{aligned} 10 \text{ millimeters} &= 1 \text{ centimeter} \\ 100 \text{ centimeters} &= 1 \text{ meter} \\ 1,000 \text{ meters} &= 1 \text{ kilometer} \end{aligned}$$

#### Math is... Structure

How can you know when to multiply and when to divide when converting units?

You multiply or divide by a power of 10 to convert metric units of mass, length, or capacity.

### Work Together

Wade and Ally converted 4,000 milliliters to liters using different methods. How can you justify their reasoning?

Wade's work:	Ally's work:
$4,000 \text{ mL} = ? \text{ L}$	$4,000 \text{ mL} = ? \text{ L}$
$4,000 \div 1,000 = 4$	$4,000 \times \frac{1}{1,000} = \frac{4,000}{1,000} = 4$
$4,000 \text{ mL} = 4 \text{ L}$	$4,000 \text{ mL} = 4 \text{ L}$



Which operation should you use for the conversion?

Explain your answer.

1. milligrams to grams

2. meters to centimeters

Complete the conversion.

3. 3 L = \_\_\_\_\_ mL

4. 100 mL = \_\_\_\_\_ L

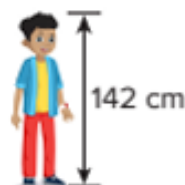
5. 500 kg = \_\_\_\_\_ g

6. 6 km = \_\_\_\_\_ m

7. 70 mg = \_\_\_\_\_ g

8. 800 kL = \_\_\_\_\_ L

9. Andrew's height is given in centimeters. What is Andrew's height in meters?



10. **Error Analysis** A cooler contains 50 liters of water. Emily calculated to determine how many milliliters of water are in the cooler. Check Emily's work. Did she make any mistakes? If so, how could she correct her work?

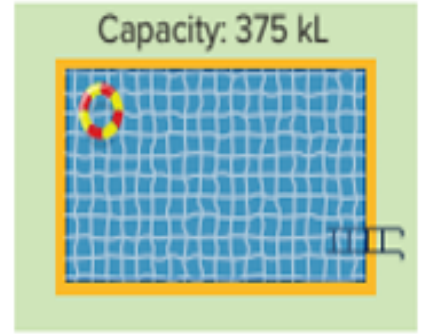
$$50 \times 100 = 5,000$$

There are 5,000 milliliters of water.



11. The maximum mass an elevator can hold is 450 kilograms.  
What is the maximum mass in grams?

12. How many liters of water are in the pool?



13. Ryan has a sheet of paper that is 0.75 meter long. What is the length in centimeters?

14. Ada's backpack has a mass of 9,080 grams. What is the mass in kilograms?



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## Unit 12 – L 3

Lesson 12-3

**Solve Multi-Step Problems  
Involving Measurement Units**

**Book Page: 175**

 01143153175

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### Learn

Annie's mother needs to have enough water to fill 16 water bottles. Each bottle holds 475 milliliters of water.

Which water jug should Annie's mother use?



You can convert units of measurement to help you solve the problem.

<p>How many milliliters of water does Annie's mother need to fill all the bottles?</p> <p>----- ? mL -----</p> <p><b>475</b> × 16 →</p> $16 \times 475 = ?$ <table style="margin-left: auto; margin-right: 0;"> <tr><td style="text-align: right;">475</td></tr> <tr><td style="text-align: right;">× 16</td></tr> <tr><td style="text-align: right;">-----</td></tr> <tr><td style="text-align: right;">2850</td></tr> <tr><td style="text-align: right;">+ 4750</td></tr> <tr><td style="text-align: right;">-----</td></tr> <tr><td style="text-align: right;">7600</td></tr> </table> <p>Annie's mother needs 7,600 milliliters of water.</p>	475	× 16	-----	2850	+ 4750	-----	7600	<p>Which water jug should she use?</p> <p>7,600 mL = ? L    <span style="border: 1px solid black; padding: 2px;">1000 mL = 1L</span></p> <p>milliliters to liters → small to large units You divide to convert.</p> $7,600 \div 1000 = 7.6$ <p>Annie's mother needs 7.6 liters of water, so she should use the 9-L jug.</p>
475								
× 16								
-----								
2850								
+ 4750								
-----								
7600								

**Math is... Perseverance**  
How can you make sense of the problem?

Knowing how to convert units of measurement can help you solve problems that have multiple steps.

### Work Together

John ordered a 2-yard long sandwich for his party. His guests ate  $\frac{2}{3}$  of the sandwich. How many inches of sandwich are left?



1. Adrian has a roll of wrapping paper that is 3 yards long. He uses  $\frac{1}{3}$  of the wrapping paper to wrap a present. What is the length, in feet, of the paper left on the roll?  
A. 1 ft  
B. 3 ft  
C. 6 ft
2. Ruby's backpack has a mass of 4 kilograms. She removes a book that has a mass of 120 grams. What is the mass of Ruby's backpack after she removes the book?  
A. 2.8 kg  
B. 3.88 kg  
C. 38.8 kg
3. Amy's family has 2 gallons of milk in the refrigerator. At dinner, her family drinks  $\frac{3}{8}$  of the milk in the refrigerator. How many cups of milk are left?
4. A track at the school is 400 meters long. Jackson walks around the track  $3\frac{1}{2}$  times. How many kilometers did Jackson walk?

- 
5. **STEM Connection** Finn knows that a cubic yard of concrete weighs about 4,050 pounds. A cement truck can hold 10 cubic yards of concrete. How many tons of concrete can the truck hold?



6. Robin is selling lemonade. She makes 3 liters of lemonade and sells glasses of 250 milliliters of lemonade each. In the first hour, she sells 6 glasses of lemonade. How many liters does she have left?



7. Brian is walking to his friend's house that is 2.6 kilometers away. He stops when he is  $\frac{7}{8}$  of the way there. How many meters does he still have to walk?

8. Nell is aiming to drink the amount of water shown per day. By 3 p.m., she is  $\frac{3}{4}$  of the way to her goal. How many more fluid ounces does she need to drink to reach her goal?



8 cups per day

9. Tyler wants to send his cousin 5 books that are each 1,500 grams. He has a box that can hold up to 6 kilograms. Will Tyler be able to use the box he has? Explain.

10. Gina is growing a houseplant. When she measures it at the beginning of the month, it is 3 feet tall. When she measures it at the end of the month, it is  $1\frac{1}{4}$  the size it was at the beginning of the month. How many inches did the houseplant grow?

