

NAME

DATE

PERIOD

Unit 3, Lesson 4: Converting Units

1. Priya's family exchanged 250 dollars for 4,250 pesos. Priya bought a sweater for 510 pesos. How many dollars did the sweater cost?

	pesos	dollars	
	4,250	250	
$\div 10$	425	25	$\div 10$
$\div 25$	17	1	$\div 25$
$\times 3$	51	3	$\times 3$
$\times 10$	510	30	$\times 10$

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2. There are 3,785 milliliters in 1 gallon, and there are 4 quarts in 1 gallon. For each question, explain or show your reasoning.

a. How many milliliters are in 3 gallons?

11,355 mL

a.

mL	gallons
3,785	1
$\times 3$ 11,355	3

b.

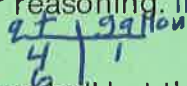
mL	quarts
3,785	4
$\div 4$ 946.25	

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b. How many milliliters are in 1 quart?

946.25 mL

3. Lin knows that there are 4 quarts in a gallon. She wants to convert 6 quarts to gallons, but cannot decide if she should multiply 6 by 4 or divide 6 by 4 to find her answer. What should she do? Explain or show your reasoning. If you get stuck, consider drawing a double number line or using a table.



divide $\frac{6 \text{ qts}}{4 \text{ qts}} = 1\frac{1}{2} \text{ gallons}$

4. Tyler has a baseball bat that weighs 28 ounces. Find this weight in kilograms and in grams. (Note: 1 kilogram \approx 35 ounces)



Challenge

ounce	Kilograms
28	.8
35	1
$\div 35$ 1	$\div 35$.02857143

.8 Kg = 800g

5. Identify whether each unit measures length, volume, or weight (or mass).

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a. Mile *length*

e. Liter *volume*

i. Kilogram *weight/mass*

b. Cup *volume*

f. Gram *weight/mass*

j. Teaspoon *volume*

c. Pound *weight/mass*

g. Pint *volume*

k. Milliliter *volume*

d. Centimeter *length*

h. Yard *length*

(from Unit 3, Lesson 1)

6. A recipe for trail mix uses 7 ounces of almonds with 5 ounces of raisins. (Almonds and raisins are the only ingredients.) How many ounces of almonds would be in a one-pound bag of this trail mix? Explain or show your reasoning.

Almonds $\frac{28}{3}$ or $9\frac{1}{3}$
or $9.\overline{33}$ ounces

A	Whole R	Total
7	5	12
$\frac{28}{3}$	$\frac{20}{3}$	16 oz
$\div 3 \uparrow$	$\div 3 \uparrow$	$\div 3 \uparrow$
28	20	48 oz

notice 12 & 16 are both factors of 48

(from Unit 2, Lesson 11)

Fill in more as needed $\times 4$

multiply by 4 and then divide by 3

7. An ant can travel at a constant speed of 980 inches every 5 minutes.

a. How far does the ant travel in 1 minute?

196 inches

b. At this rate, how far can the ant travel in 7 minutes?

1,372 inches

(from Unit 2, Lesson 9)

in	min
980	5
196	1
1,372	7

$\div 5 \downarrow$ $\times 7 \downarrow$ $\div 5 \downarrow$ $\times 7 \downarrow$

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