NAME Key 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?

Show work!

pesos	dollars
4,250	250
425	25
17	1
51	3
510	30

÷10, ÷10, ÷25, ÷25, ×3, ×3, ×10, ×10

/4

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.

mL	Gallon
3785	1
11,355	3

(×3)

Q	Gallon
4	1

/2

a. How many milliliters are in 3 gallons?

11,355 mL

b. How many milliliters are in 1 quart?

3785 mL/gallon ÷ 4 = 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.

6 quarts is MORE than 1 gallon so $6 \div 4 = 1\frac{2}{4}$ or $1\frac{1}{2}$ gallons

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

Kg	ounce
1	35
.2	7
.8	28

(×1/5 or ÷5; ×4)

.8 kg × 1000 g = 800 grams

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

Q	G
4	1
6	1 1/2

(×1½; ×1/4)

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a. Mile Length	e. Liter Volume	i. Kilogram Weight/Mass
b. Cup Volume	f. Gram Weight	j. Teaspoon Volume
c. Pound Weight	g. Pint Volume	k. Milliliter Volume
d. Centimeter Length	h. Yard Length	

(from Unit 3, Lesson 1)

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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.

$\frac{7}{1} \cdot \frac{4}{3} = \frac{28}{3} = 9\frac{1}{3}$ $\quad \frac{7}{12} \cdot \frac{16}{1} = \frac{112}{12} = 9\frac{4}{12}$

	A (part)	R (part)	Total (whole)
	7 ×4/3	5	12 ×4/3
	$9\frac{1}{3}$		16oz
	$\frac{7}{12}$	$\frac{5}{12}$	1

Fill in more as needed

$\frac{16}{12} = 1\frac{4}{12}$ or $\frac{4}{3}$

(from Unit 2, Lesson 11)

/1

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

in	min
980	5
196	1
1,372	7

÷5 ×7

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)

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