



TEACHER GUIDE

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STUDENT HANDOUTS

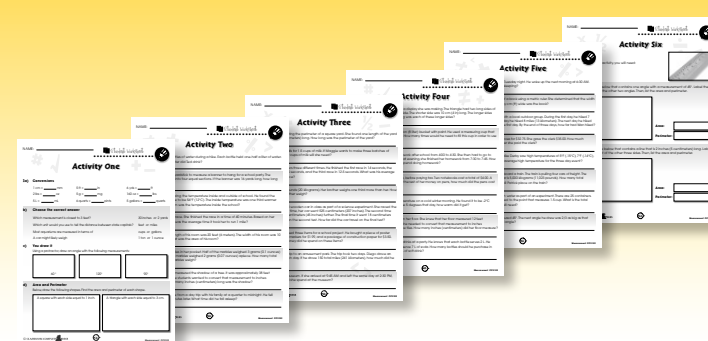
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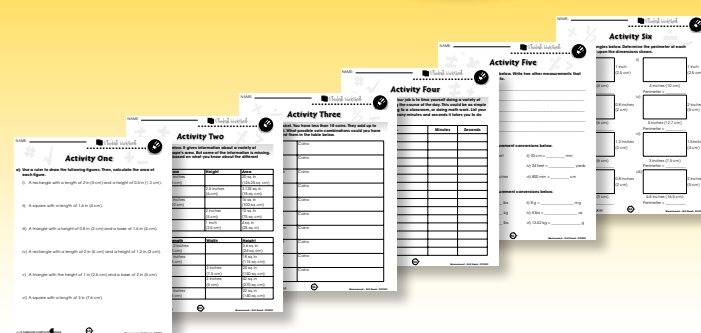
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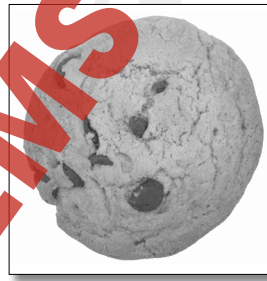




Task Sheet 3

Cooking Up Something Imperial

3) Diego and his father were making chocolate chip cookies for a class party. They followed the recipe Diego found in a cook book and were mixing ingredients in a bowl. But, they had one problem. The recipe Diego used was meant to bake 24 cookies. He needed to make 48. Rewrite the portion of the recipe shown below to reflect how much of each ingredient Diego will need to make 48 cookies.



Original Recipe

- 1 cup of softened butter
- 1 cup brown sugar
- 1 cup white sugar
- 1 teaspoon baking soda
- 2 teaspoons vanilla extract
- ½ teaspoon salt
- 2 cups of chocolate chips
- 3 cups flour

Doubled Recipe

- _____ cups of softened butter
- _____ cups brown sugar
- _____ cups white sugar
- _____ teaspoons baking soda
- _____ teaspoons vanilla extract
- _____ teaspoon(s) salt
- _____ cups of chocolate chips
- _____ cups flour

Reflection

Suppose you were Diego. Find your favorite recipe in a book or on the computer. Imagine you had to make enough to serve 48 people. Write a list of the ingredients you would need to make your recipe.

A recipe for: _____
 Ingredients: _____



Task Sheet 7

Shadow Casters

7) Li and her class had been studying shadows as part of a science unit in class. The students measured the length of shadows of objects at 8 AM and noon as part of their project. The results are listed below. The last part of the experiment is to convert the measurement from centimeters to meters. Help Li's class by converting the measurement from centimeters to meters in the spot below.



Object	Shadow length at 8 AM in centimeters (inches)	Shadow length at 8 AM in meters (feet)	Shadow length at noon in centimeters (inches)	Shadow length at noon in meters (feet)
a) Shrub	1140 (449)		104 (41)	
b) Flagpole	3520 (1386)		350 (138)	
c) Sunflower	570 (224)		57 (22)	
d) Soccer ball	30 (12)		3 (1)	
e) Birch tree	2260 (898)		225 (89)	
f) Slide	805 (317)		79 (31)	
g) Li	1610 (634)		160 (63)	

Reflection

Try measuring shadows of three objects outside at 8 AM and noon. List your results in the chart below.

Object 1 _____ 8 AM _____ noon _____
 Object 2 _____ 8 AM _____ noon _____
 Object 3 _____ 8 AM _____ noon _____



3a) Match the item on the left with the item on the right.



Ex:	cup
1	liter
2	milliliter
3	gallon
4	pint
5	kiloliter
6	quart

equals 1000 L	A
four of these are in a gallon	B
there are two of these in a quart	C
one pint has two of these	Ex:
is the same as 1000 mL	D
a kiloliter has 100,000 of these	E
there are four quarts in this	F

b) Convert the measurements below.

- i) 4 cups = _____ pints
- ii) 2 L = _____ mL
- iii) 20 kL = _____ L
- iv) 8 pints = _____ quarts
- v) 2 gallons = _____ cups
- vi) 5,000 mL = _____ L
- vii) 8 kL = _____ L
- viii) 4 quarts = _____ pints
- ix) 2 cups = _____ gallons
- x) 3000 mL = _____ quarts
- xi) 4 gallons = _____ cups
- xii) 5 kL = _____ mL
- xiii) 9 L = _____ cups
- xiv) 2 pints = _____ quarts

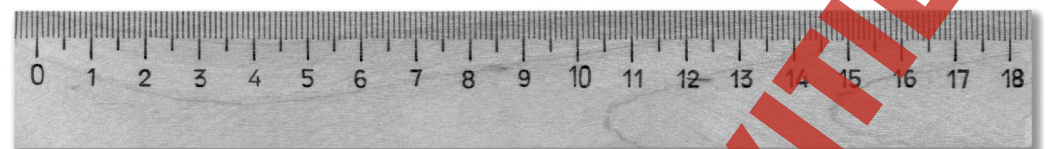
Explore with Technology



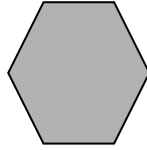
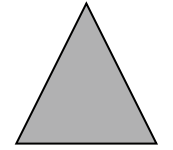


Using the internet, research the difference between gallons and liters. How are they different? How are they similar? When would it be best to use gallons and when would it be best to use liters when measuring?



7a) Look at the following shapes below. Using a ruler, measure the perimeter of each shape in inches and centimeters.



- i)  Perimeter = _____ in
Perimeter = _____ cm
- ii)  Perimeter = _____ in
Perimeter = _____ cm
- iii)  Perimeter = _____ in
Perimeter = _____ cm
- iv)  Perimeter = _____ in
Perimeter = _____ cm

b) Draw four of your own shapes and measure the perimeter in inches and cm.

- i) _____ in _____ in
_____ cm _____ cm
- ii) _____ in _____ in
_____ cm _____ cm
- iii) _____ in _____ in
_____ cm _____ cm
- iv) _____ in _____ in
_____ cm _____ cm



Drill Sheet 1

Conversions

- a) 5 ft = _____ in 2 gallons = _____ quarts 2 lbs = _____ oz
 9000 mg = _____ g 30 m = _____ cm 5 kL = _____ L
 6 pints = _____ cups 48 oz = _____ lbs 720 in = _____ ft
 5 m = _____ cm 8000 mL = _____ L 6000 g = _____ kg

Choose the correct answer

- b) Which weighs more? 1 lb or 10 oz
 c) Which term is a unit of distance? mile or pound
 d) Which temperature is closer to the freezing point? -3°C (27°F) or 2°C (36°F)
 e) Which unit would be used to measure an adult whale? ounce or ton

Time and Money

- f) List three ways you can make \$1.75 using at least three different types of coins or bills.

 g) Suppose you purchased lunch at school for \$3.75. If you gave the cashier \$5.00, how much money would you receive back?

 h) A plane takes off at 10:45 PM and lands five hours and twelve minutes later. What time did the plane land?

 i) Susan began soccer camp on July 14. She stayed at camp for two weeks and three days. What day did she leave camp?



Review B

Measurement Conversions

- a) 2 ft = _____ in 60 in = _____ ft 15 ft = _____ yds
 600 mm = _____ cm 100 mm = _____ cm 1 m = _____ mm
 36 ft = _____ yds 5 yds = _____ ft 4 ft = _____ in

Weight

- b) 1 ton = _____ lbs 3 lbs = _____ oz 64 oz = _____ lbs
 2 g = _____ mg 50,000 mg = _____ g 3000 g = _____ kg

Liquid Measurement

- c) 3 quart = _____ pints 16 cups = _____ pints 20 quarts = _____ gallons
 5 pints = _____ cups 12 pints = _____ quarts 6 gallons = _____ quarts

Time

- d) One quarter until noon. _____
 e) Fifteen minutes past six thirty at night. _____
 f) One and one half hour past midnight. _____
 g) Twenty five minutes until eight o'clock in the morning. _____

Temperature

- h) Which temperature would you find on a summer day? 20°F (-7°C) or 80°F (27°C)
 i) What temperature would water be as it turns to ice? 0°C (32°F) or 100°C (212°F)
 j) Which temperature would a person have who has a fever? 98°F (37°C) or 101°F (38°C)
 k) What temperature would you find on a cool fall day? 50°F (10°C) or 10°F (-12°C)



Review A

a) Convert the following measurements.

- i) 12 in = _____ ft ii) 8 cm = _____ mm
 iii) 5 lbs = _____ oz iv) 6 L = _____ mL
 v) 3,000 mg = _____ g vi) 3 gallons = _____ quarts
 vii) 9 ft = _____ yards viii) 4 cups = _____ pints

b) Draw the hands on the clocks below to show the given times.

- i)  12:15
 ii)  9:45

c) What coins can be used to make each amount below?




- i) 28 cents: _____
 ii) 32 cents: _____




d) Color the following temperatures on the thermometers below.




- i)  45°F
 ii)  18°C



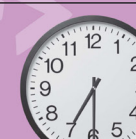
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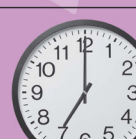

What time does each clock show below?

- i)  ii)  iii) 

 iv)  v)  vi) 

 vii)  viii)  ix) 

 x)  xi)  xii) 

 xiii)  xiv)  xv) 

NAME: _____



17a) Rewrite the following times in number form.

1:00 pm

Ex: one o'clock in the afternoon: 1:00 PM

- i) two thirty in the morning: _____
- ii) noon: _____
- iii) half past six in the evening: _____
- iv) ten minutes to eight at night: _____
- v) quarter to three in the morning: _____
- vi) twenty minutes to ten at night: _____
- vii) quarter past four in the afternoon: _____
- viii) ten after ten in the morning: _____
- ix) five minutes to seven in the evening: _____
- x) midnight: _____
- xi) quarter to nine at night: _____
- xii) eight forty in the morning: _____
- xiii) six ten in the morning: _____
- xiv) quarter past noon: _____
- xv) half past seven in the morning: _____

EASY MARKING



Reflection

Look at the times listed above. Create a timeline and place the times in the correct order that they would occur in a 24 hour period.

17.

a)

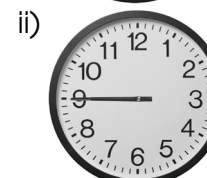
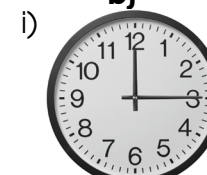
- i) 2:30 AM
- ii) 12:00 PM
- iii) 6:30 PM
- iv) 7:50 PM
- v) 2:45 AM
- vi) 9:40 PM
- vii) 4:15 PM
- viii) 10:10 AM
- ix) 6:55 PM
- x) 12:00 AM
- xi) 8:45 PM
- xii) 8:40 AM
- xiii) 6:10 AM
- xiv) 12:15 PM
- xv) 7:30 AM

Review A

a)

- i) 12 in = 1 ft
- ii) 8 cm = 80 mm
- iii) 5 lbs = 80 oz
- iv) 6 L = 6,000 mL
- v) 3,000 mg = 3 g
- vi) 3 gallons = 12 quarts
- vii) 9 ft = 3 yards
- viii) 4 cups = 2 pints

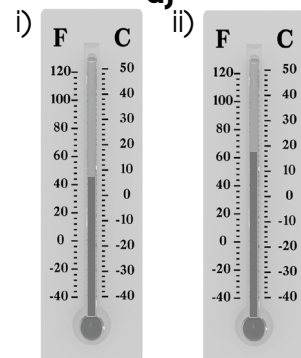
b)



c)

Coin combinations may vary. Possible combinations include:
i) 3 pennies, 1 quarter
ii) 2 pennies, 2 nickels, 2 dimes

d)



Review B

a)

- i) 4 ft = 48 in
- ii) 22 g = 22,000 mg
- iii) 7 lbs = 112 oz
- iv) 6 pints = 12 cups
- v) 50 L = 50,000 mL
- vi) 12 yards = 36 feet
- vii) 250 cm = 2.5 m
- viii) 3 gallons = 24 pints

b)

- i) 3:30
- ii) 7:45

Make sure the student drew the correct time on the clocks.

c)

- i) Area = 1 sq in (6.25 sq cm); Perimeter = 4 in (10 cm)
- ii) Area = 0.48 sq in (3 sq cm); Perimeter = 3.6 in (9 cm)

d)

Coin combinations will vary. Possible combinations include: 5 pennies, 3 nickels, 3 dimes, 1 quarter.

Review C

a)

- i) 2.5 ft = 30 in
- ii) 227 L = 227,000 mL
- iii) 180 g = 0.18 kg
- iv) 12 pints = 1.5 gallons
- v) 2.5 tons = 5,000 lbs
- vi) 3.7 m = 370 cm
- vii) 5 quarts = 20 cups
- viii) 8 kL = 8 million mL

b)

- i) length = 2 inches (5 cm); height = 0.5 inches (1.3 cm); Area = 1 sq in (6.5 sq cm); Perimeter = 5 inches (12.6 cm)
- ii) length = 1.5 inches (3.8 cm); height = 0.5 inches (1.3 cm); Area = 0.375 sq in (2.47 sq cm); Perimeter = 4.5 inches (11.4 cm)
- iii) length = 1 inch (2.5 cm); height = 2 inches (5 cm); Area = 2 sq in (12.5 sq cm); Perimeter = 6 inches (15 cm)
- iv) length = 2 inches (5 cm); height = 2 inches (5 cm); Area = 4 sq in (25 sq cm); Perimeter = 8 inches (20 cm)

