

Name : \_\_\_\_\_ Date: \_\_\_\_\_

## Module 2 study guide

### 1. COMPLETE THE FOLLOWING CONVERSION CHARTS

#### LENGTH

9 km	m
km	18,000m
9 km 26 m	m
Km      m	23,675m
35 km 22 m	m
202 km 1 m	m

#### MASS

25 kg	g
kg	202,000 g
16 kg 2 g	g
35 kg 10 g	g
Kg          g	435,023 g
Kg          g	398, 132 g

#### CAPACITY

2 L	ml
L	3000ml
25 L 254 ml	ml
L          ml	35,964 ml
L          ml	987, 001 ml

2. Find the sum or difference. Show your work.

a.  $562 \text{ kg } 43 \text{ g} - 24 \text{ kg } 27 \text{ g} =$

B.  $25 \text{ L } 7 \text{ ml} + 189 \text{ ml} =$

C.  $345 \text{ kg } 678 \text{ g} + 123 \text{ kg } 456 \text{ g} =$

D.  $432 \text{ km } 22 \text{ m} - 89 \text{ km } 15 \text{ m} =$

E.  $254 \text{ kg} - 267 \text{ g} =$

3. Mrs. Ashby walks her pet alligator for 12,000m every day. Then, she walks her pet elephant for 2 km. How many meters does Mrs. Ashby walk her pets each day?

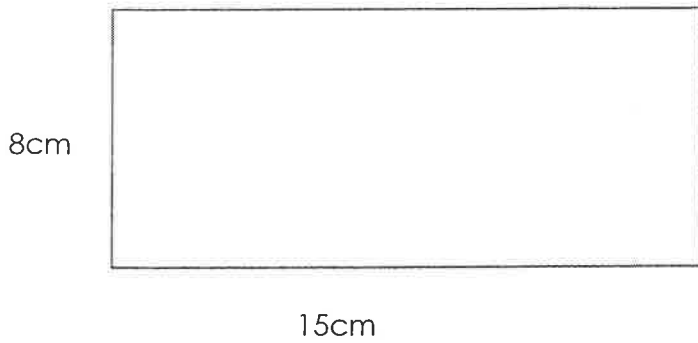
4. Mrs. Raines drinks coffee every day. She wants to take coffee with her to the zoo field trip. Each morning she drinks 32,000 ml of coffee. In the afternoon, she drinks 55,000 ml of coffee. Would all of her coffee fit into a 2L container to bring to the zoo? Explain your thinking.

5. Emma and Morgan are arguing about who has run the most at practice this week. If Emma ran 25 km, and Morgan ran 21,535 m, who ran the most? And how much more did she run?

6. Mr. Wolfe has been training for his bike race and has been losing some weight. Two weeks ago he lost 1 kilogram 235 grams. Last week and this week he has lost 2 kilograms 145 grams. Mr. Wolfe now weighs 82 kilograms 325 grams. What was his weight in grams, before he started training? Explain your thinking.

7. Luke gets home from football practice at 7:40. He needs to go to bed by 9:00. How much time does Luke have after practice before he needs to go to bed?

8. Find the area and perimeter of the rectangle below.



Area: \_\_\_\_\_ Perimeter: \_\_\_\_\_

9. Last weekend, Mr. Wolfe went camping and slept in a tent. The width of the tent was 6 feet and the area of the tent was 30 square feet. What was the length of the tent?

Formulas and conversions that you may need on this test are found below.  
You may refer back to this page at any time during the mathematics test.

2019  
Grade 4

**Standard Conversions**

1 yard (yd) = 3 feet (ft)

1 foot = 12 inches (in.)

1 pound (lb) = 16 ounces (oz.)

1 gallon (gal) = 4 quarts (qt)

1 quart = 2 pints (pt)

1 pint = 2 cups (c)

**Metric Conversions**

1 kilometer (km) = 1,000 meters (m)

1 meter = 100 centimeters (cm)

1 kilogram (kg) = 1,000 grams (g)

1 liter (L) = 1,000 milliliters (mL)

**Time Conversions**

1 year (yr) = 12 months (mo)

1 year = 52 weeks (wk)

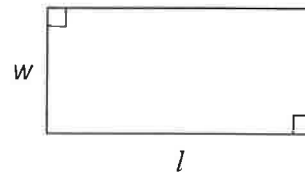
1 year = 365 days

1 week = 7 days

1 day = 24 hours (hr)

1 hour = 60 minutes (min)

1 minute = 60 seconds (sec)

**Rectangle**

Area = length  $\times$  width

$$A = l \times w$$

Perimeter = length + length + width + width

$$P = l + l + w + w$$