### 7<sup>th</sup> Grade Assignment – Week #9

#### Individual Work

- As much as you can, do the following problems. In preparation for the test, you should focus on the problems which you need to practice the most.
  - Measurement Sheet #5, problems #1, 2, 3, 6-13
  - Measurement Sheet #6, problems #1, 2, 3, 7-17

#### Group Assignment:

- *For Tuesday.* Work together on Measurement Sheet #5, problems #5-18.
- For Thursday.
  - Work together on Measurement Sheet #6, problems #4-6.
  - *Puzzle!* One number is one less than twice another number. Twice the sum of the numbers is 49. Find the two numbers.
  - *Puzzle!* Twice Bill's weight is 12 kilograms less than Frank's weight, but 3 times Bill's weight is 3 kilogram's more than Frank's weight. Find Frank's weight.

## Measurement – Sheet #5

<ol> <li>Add or subtract. Give answer in the largest unit.</li> <li>a) 45l + 270ml =</li> </ol>	d) 9706 cm =km e) $1\frac{1}{2}$ qt =fl.oz	3) A crate loaded with 36 blocks of wood weighs 1.43 metric tons. Each block weighs 37.5kg. What
b) 4300g + 87kg =	f) 84 mm =m	does the crate weigh when empty? (Give your answer in kg.)
c) 5yd - 30in =	g) 1 week =hr	
d) 3pt + 2qt - 36fl.oz =	h) 73.1 kg =g	
e) $0.4m + 763cm =$	i) 3 fl.oz. =tsp	<ul> <li>4) 2ℓ of a certain paint will cover 25sq.m.</li> </ul>
2) <b>Complete.</b>	j) 48 tsp =fl.oz.	How many liters of paint are needed to cover 300sq.m?
a) $\frac{3}{4}$ mi =ft	k) 6700 mm =m	
b) $\frac{3}{8}\ell = \m \ell$	l) 8.1 kg =mg	
a) $15 \text{ am} = \text{mm}$	m) 1 hr =s	
c) 1.5 cm =mm	n) 144 pt =gal	

<ul><li>5) A certain relay race is made up of 8 segments. Each segment is 1500m long.</li><li>a) How long is the whole race (in km)?</li></ul>	Mental Math 6) $65^2 =$ 7) $35^2 =$ 8) $120 \cdot 25 =$ 9) $25 \cdot 28 =$	<ul> <li>18) Multiply only the first two out, and then look for patterns for the rest.</li> <li>a) 12345679 • 18 =</li> </ul>
b) What fraction of the race has passed after 3000m?	$\begin{array}{l} 5) & 23 \cdot 28 = \\ 10) & 51 \cdot 490 = \\ 11) & 216 \div 5 = \\ 12) & 103 \cdot 105 = \\ 13) & 2800 \cdot 25 = \end{array}$	<ul> <li>b) 12345679 • 45 =</li> <li>c) 12345679 • 72 =</li> </ul>
c) How many complete segments have been finished after 7600m?	Review Section 14) Short Division. Leave your answer as a mixed number. 432503 ÷ 6	d) 12345679•9 =
d) Jane drinks an average of 325ml during each segment. How many liters does she drink during the whole race?	<ul><li>432303 ÷ 0</li><li>15) Convert to a fraction.</li><li>a) 0.089</li></ul>	<ul> <li>e) 12345679 • 81 =</li> <li>f) 12345679 • 54 =</li> </ul>
<ul> <li>e) If she started with 3.0ℓ, then how much is left at the end of the race (in mℓ)?</li> </ul>	<ul> <li>b) 0.375</li> <li>c) 0.0025</li> <li>16) Reduce. <u>3888</u> <u>8208</u></li> </ul>	<ul> <li>g) 12345679 • 27 =</li> <li>h) 12345679 • 36 =</li> <li>i) 12345679 • 63 =</li> </ul>
	17) $\frac{3}{11} + \frac{5}{6}$	j)Challenge! 12345679 • 9999999999 =

# Measurement – Sheet #6

<ol> <li>State what each prefix means.</li> <li>a) Kilo-</li> </ol>	4) A pitcher that can hold $1.6\ell$ is $5/8$ full. How many milliliters are in the pitcher?	<ul> <li>7) Circle that which is most reasonable.</li> <li>a) 2.2 m length of an arm length of a bed</li> </ul>
b) Milli-		length of a football field
c) Centi-		b) 1200 kg weight of a bicycle weight of a car weight of a train
2) A truck is carrying 1.8 metric tons of metal bars. Each bar has a weight of 7500g and a length of 350cm. If they were all laid end-to-end, then how long would the line of bars be? (Give your answer both in meters and in km.)	5) How many 15g servings are in a 0.42kg block of cheese?	c) 384400 km distance to town distance to Mexico distance to the moon
		d) 3 m <i>l</i> volume of a bucket volume of a mug volume of a thimble
	6) How many 15mm-thick	e) 90 kg weight of a heavy dog weight of a heavy horse weight of a heavy whale
	slices can a 25.5cm-long loaf of bread be cut into?	Mental Math
		8) $35^2 =$
3) <b>Add or subtract.</b> Give answer in the largest		9) $95^2 =$
unit. a) $25 \text{ am} + 18 \text{ m} =$		10) $850^2 =$
a) $25cm + 18m =$		11) 250 • 4800 =
b) $7.3\ell - 28m\ell =$		12) $160 \div 240 =$
c) $4200mm + 15m =$		13) $0.014 \div 4 =$
,		14) 54 · 11 =
d) $17min - 510s =$		15) $112 \cdot 108 =$

<ul> <li>16) Complete.</li> <li>a) 12 m =cm</li> </ul>	18) Convert to a decimal. a) $\frac{1}{8}$	21) Give your answer both as a decimal and as a fraction.
b) 544 fl.oz =pt	b) $\frac{725}{999}$	a) $0.8 - \frac{3}{4}$
c) $0.06 \text{ m} \ell = \\ell$	c) $\frac{7}{50}$	b) $\frac{7}{20} + 0.35$
d) 0.097 kg =mg e) $\frac{3}{8}$ gal =c	d) $\frac{71}{88}$	
f) 0.07 mm =km	<ul> <li>19) Convert to a mixed number.</li> <li>a) <sup>39</sup>/<sub>7</sub></li> </ul>	c) What is $\frac{3}{5}$ of 0.17?
<ul> <li>g) 9.34 kg =mg</li> <li>h) 16000 oz =ton</li> </ul>	b) $\frac{6841}{23}$	22) $(0.004)^3$
i) 3.8 mg =kg	<ul> <li>20) Convert to an improper fraction.</li> <li>a) 8<sup>7</sup>/<sub>12</sub></li> </ul>	23) $6 \div 8^{1}/4$
j) $5\frac{1}{2}$ gal =qt k) 1 c =tsp	b) $1010\frac{1}{11}$	24) Challenge!
l) 648 in =yd		$\frac{5}{5}$
<ul> <li>Review Section</li> <li>17) Roots.</li> <li>a) √1000000</li> </ul>	c) $3030\frac{3}{11}$	$5 + \frac{5}{5 + \frac{5}{5 + \frac{5}{5}}}$
b) $\sqrt[3]{1000000}$		
c) $\sqrt[6]{1000000}$		
d) $\sqrt[3]{27000000}$	d) $707070\frac{7}{11}$	
e) $\sqrt[5]{3200000}$		