6th Grade Assignment – Week #9

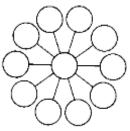
Individual Work: See how much you can do on Sheet #9 in the workbook.

Group Assignment:

For Tuesday: Puzzles!

- **1. Making Change** George asked the cashier for change for a dollar and he received 21 coins. How was this done?
- 2. Number Wheel

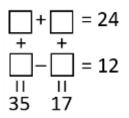
Use the numbers 1 through 11 to fill in each circle. Arrange it so that for any three circles which fall on a straight line, the sum of the three numbers will always be the same. <u>Extra challenge</u>: which numbers can possibly be in the middle?



For Thursday:

3. Arithmetic Square.

Fill in the four boxes so that the four equations are true.



4. Missing-Digit Arithmetic. Fill in the missing digits (indicated by "?") for these problems.

a) ?7	b) ?3	c) ?2?
x 53	x 5?	x ?7
94	3?2	2??5
+ ???(+ ??50	+ ?3??
????	<u></u>	1??7?

6th Grade Math – Sheet #9

Do it in your head. 1) $\sqrt{400}$ 2) $70 \div 4$ 3) $25 \cdot 2$ 4) $2005 - 1987$ 5) $0.006 \div 0.002$	24) $\frac{3}{10} + \frac{1}{5}$ 25) $13 \cdot 3$ 26) 25^2 Convert to decimals. 27) Some of these you should have memorized, for others (20ths, 11ths, 9ths, 99ths, etc.) there are	28) Cast out nines to check your answer. 857900 <u>x 584000</u>
6) $15 \cdot 3$ 7) $25 \cdot 4$ 8) 200^3 9) $(0.004)^2$	tricks, and for the rest you'll have to divide. a) $\frac{1}{4}$ b) $\frac{7}{8}$	
10) $\frac{5}{7} \cdot \frac{3}{11}$ 11) 400 \cdot 80 12) $\frac{3}{5} \div \frac{2}{3}$	c) $\frac{7}{9}$ d) $\frac{3}{20}$ e) $\frac{3}{4}$	Estimate. Round the numbers in the problem to one or two significant digits, then estimate the answer.
13) $\frac{\frac{3}{5}}{\frac{2}{3}}$ 14) 0.03 ÷ 100 15) $\sqrt{1440000}$	f) $\frac{1}{5}$ g) $\frac{3}{8}$	 29) 8273 + 6187 30) 719 • 382 31) 39657 - 28053
16) $25 \cdot 5$ 17) $15 \cdot 2$ 18) $0.03 \cdot 1000$ 19) $25 \cdot 3$	h) $\frac{83}{99}$ i) $\frac{8}{11}$ j) $\frac{11}{40}$ k) $\frac{4}{5}$	 32) 81956 ÷ 39 Divisibility. State whether each of the following numbers is
20) $\sqrt{\frac{9}{400}}$ 21) 15 · 4 22) 3.2 ÷ 0.08 23) 980 · 11	1) $\frac{19}{20}$ m) $\frac{6}{11}$ n) $\frac{19}{30}$	evenly divisible by 2, 3, 4, 5, 9, or 10. 33) 85,734 34) 85,741,920

Fractions.		Unit Cost.40) Nine red pens cost	43) Long Division. Leave your answer
35)	$\frac{16}{25} + \frac{14}{15}$	\$5.13, and eleven green pens cost \$6.49. Which one has a cheaper unit price?	rounded to three significant digits. $57.2 \div 4.83$
36)	$7\frac{4}{5} \div 3\frac{1}{4}$		
37)	$\frac{7\frac{4}{5}}{3\frac{1}{4}}$	41) Five pounds of oranges cost \$4.25. What is the cost of seven pounds of oranges?	44) Convert the following improper fraction to <i>both</i> a mixed number and an exact decimal. $\frac{7671}{37}$
38)	$657\frac{8}{9} - 652\frac{2}{3}$		
39)	$(3\frac{1}{3})^3$	 42) Short Division. Leave your answer as an exact decimal. 76941 ÷ 800 	Powers. 45) Calculate. $2^3 = 3^3 = 2^4 = 3^4 = 2^5 = 3^4 = 2^5 = 3^5 = 2^6 = 3^$