

## 6<sup>th</sup> Grade Group Assignment – Week #4

**Individual Homework:** See how much you can do on Sheet #4. Note that I will introduce exponents and do more with mixed numbers (fractions) during Wednesday's lecture, so you may want to hold off on those problems until after Wednesday's lecture.

Note for parents: As always, be sure that the students do not look at the following questions until their group meeting begins. I don't want anyone to arrive at the group meeting with a solution or ideas of how to solve it. I want the students to contemplate this together in their groups.

### For Group Work on Tuesday

1. *Unit Cost and Rates*

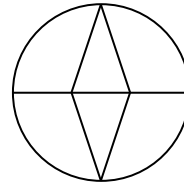
- If 10 pounds of bananas cost \$5.20, how much do 8 pounds of bananas cost?
- If 3 boxes of cereal cost \$6.90, how much do 7 boxes of cereal cost?

2. What number is halfway between...

- 35 and 83?
- 45 and 52?
- $7\frac{3}{5}$  and  $7\frac{4}{5}$
- Extra challenge!  $7\frac{5}{6}$  and  $10\frac{3}{8}$

### For Group Work on Thursday

3. *Form Tracing.* Trace this form without lifting your pencil off the page, retracing any part of the form, or crossing through any line you've already traced.



4. *The Chicken, the Fox, and the Sack of Grain.*

Jeff must carry a chicken, a fox, and a sack of grain across a bridge. However, he can only carry one at a time, and he cannot leave the chicken alone with the grain or leave the fox alone with the chicken. How can he do this?

5. *Coin Puzzle.* Kate has a pocketful of dimes and quarters. How many quarters are there if there are a total of 29 coins and they are worth \$4.85?



**Fractions.**

27)  $\frac{4}{5} + \frac{2}{7}$

28)  $\frac{4}{5} - \frac{1}{5}$

29)  $\frac{8}{9} \div \frac{6}{7}$

30)  $\frac{5}{12} \cdot \frac{8}{15}$

31)  $5\frac{7}{8} + 12\frac{2}{3}$

32)  $7\frac{7}{8} - 2\frac{5}{8}$

33)  $7\frac{5}{8} - 2\frac{7}{8}$

34)  $7\frac{3}{8} - 2\frac{4}{5}$

35) Convert to a mixed number.

$$\frac{75}{8}$$

36) Convert to an improper fraction.

$$7\frac{3}{8}$$

**Short Division.**

Leave your answer as a mixed number.

37)  $867 \div 5$

38)  $62794 \div 7$

**Long Division.***Fill in the Blanks.*

If necessary, review the example and problems on the previous worksheet.

39) With  $3497 \div 81$ , we first ask, "How many times does \_\_\_\_\_ go into \_\_\_\_?"40) With  $18457 \div 683$ , we first ask, "How many times does \_\_\_\_\_ go into \_\_\_\_?"41) With  $91.35 \div 72.5$ , we first ask, "How many times does \_\_\_\_\_ go into \_\_\_\_?"Now, using your above answers, do the below division problems. Leave your answers as mixed numbers. *You must show your work on a separate piece of paper.*

42)  $3497 \div 81$

43)  $18457 \div 683$

44) Leave your answer as a decimal.  
 $91.35 \div 72.5$