6th Grade Assignment – Week #25

Individual Work: As always, do what you can!

• Do as much as you can with Sheet #21 in the workbook. Save problems #34-38 for group work.

Group Assignments: Work on the below problems on Tuesday or Thursday, as desired.

- 1) *Percents practice*. Work together and help each other doing problems #34-38 on Sheet #21.
- 2) *Areas of Shapes*. With each of the below shapes, every angle is a right angle. The drawing is not drawn accurately to scale, but the length of each edge must be a whole number in centimeters. Find the length of each edge that makes the area work. There are multiple solutions, so try to find as many solutions as you can.
 - a) Area = 60 sq. cm.





b) Area = 98 sq. cm.

- 3) Write the prime factorization for each of these numbers:
 - a) 9
 - b) 99
 - c) 999
 - d) 9999
 - e) 99999 (Challenge!)
- 4) *Puzzle!* Lexie has two-thirds as much money as Fiona, and Sam has \$8 less than Fiona. How much do the three of them have combined if Sam has \$10?
- 5) *Puzzle!* Two-thirds of the students in Mr. Smith's class are girls. If there are 12 boys in the class, how many total students are there in the class?

6th Grade Math – Sheet #21



23) Convert to a percent.a) 0.96	29) 7 is what percent of 35?	Business Math. 36) A bicycle in a shop is marked at \$260 What do
b) 0.05		you pay if the tax rate is 7%?
c) 0.1	30) 18 is what percent of $\frac{752}{752}$	
d) 0.873	15:	
e) $\frac{7}{50}$		
	31) 450 is what percent of 540?	37) Bill can make a chair
f) $\frac{43}{60}$		at a cost of \$36, including parts and labor. What must his selling price be (rounded to the pagest
	32) 43 is what percent of 60 ?	dollar) if he wants to make a 30% profit?
What is 24) 60% of 65?		
25) 73% of 680?	33) The previous problem is the same as which other problem on this worksheet?	
26) 33 ¹ / ₃ % of 12000?	34) What is 2400 decreased by 21%?	38) A clothing store is having a 35%-off sale. What is the new discounted price of a jacket that was originally
27) 12 ¹ / ₂ % of 240?		marked at \$120?
28) 16⅔% of 72?	35) What is 40 increased by 62 ¹ / ₂ %?	