Name: _____

Homework WEEK 15
Solve the following problems **without a calculator**. You *MUST* show your work.
NO WORK = NO CREDIT.
Homework – Monday

1. A music store is having a clearance sale. All items are discounted by 15%. What is the sale price of a radio that regularly costs $20?	2. What percent of 50 is 35?
3. Solve for x. $\dfrac{4}{10} = \dfrac{x}{35}$	4. $4x + 3(x - 5) = 51$

Homework- Tuesday

1. Lukas took 30 minutes to do 18 math problems. Juan took 23 minutes to do 11 math problems. Which student did more problems per minute? How do you know?	2. Write the decimal and percent equivalent to $\dfrac{16}{35}$.
3. A bag contains 20 marbles. ● Six of the marbles are blue. ● One-tenth of the marbles are red. ● Forty percent of the marbles are yellow. ● The remaining marbles are green. How many green marbles are in the bag?	4. Solve for x. $\dfrac{7.5}{12} = \dfrac{4.2}{x}$

Homework Wednesday

1. What is the value of **r** in the inequality: $\dfrac{r+7}{4} < -19$	2. Leah runs ⅝ of a mile in ¾ of an hour. If she continues at this rate, how far can Leah run in a full hour?

3. Which expression shows the total with an increase of 20%? Explain how you know.
 	
  a. 100 + 20 = 120%
  b. 100 - 20 = 80%
  c. 80 + 20 = 100%
	4. Is this a proportional relationship? Explain.
	
	<table><tr><td>dollars</td><td>pens</td></tr><tr><td>1</td><td>70</td></tr><tr><td>3</td><td>210</td></tr><tr><td>5</td><td>350</td></tr></table>

Homework - Thursday

1. The Freeman family went out to watch the Falcons play in the Super Bowl. Their meal came to $68.75. They paid a 6% tax and a 20% tip. What was their total bill?	2. A Patriot's Jersey is marked up $14 due to their participation in the Super Bowl. If this represents a 15% increase, what was the original price? (Round to the nearest cent if necessary.)
3. You can get 640 calories from eating 5 bananas. How many calories can you get from eating 1 banana?	4. The sale price of a cell phone is $259. What was the original price if it was marked down 25%? (Round to the nearest cent if necessary.)