

Final Exam Review Assignment Part II

1. The Nile is the longest river in the world at 6,670 km. Use the following conversion factors to convert this to miles using unit analysis.

$$1 \text{ foot} = 0.3 \text{ meters}$$

$$1 \text{ km} = 1000 \text{ meters}$$

$$5280 \text{ feet} = 1 \text{ mile}$$

2. Go to Day 4 Activity #1. Compare your answer from #1 above to your activity's answer. Are they the same and correct? If they are not the same, determine which answer is correct.

3. Simplify the following expressions. Answers should have positive exponents only.

a. $\frac{x^6}{x^4} =$

b. $\frac{y^5}{y} =$

c. $\frac{6x^3y^4}{4xy^2} =$

d. $\frac{3x^5y}{2x^2y} =$

e. $\frac{3x}{6x^3y^2} =$

f. $\frac{4x^2y^3}{10x^3} =$

4. Go to Day 6 Activity #1-6. Compare your answers from #3a-f above to your activity's answers. Are they the same and correct? If they are not the same, determine which answer is correct.

5. Simplify the following expression. Answers should have positive exponents only.

$$\sqrt{x^3} \cdot \sqrt[4]{x}$$

6. Go to Day 16 Activity #7. Compare your answer from #5 above to your activity's answer. Are they the same and correct? If they are not the same, determine which answer is correct.

7. Gordy needs to find a babysitter for his grandson. The cost, C , in dollars, for the sitter is $C(h) = 25 + 6h$, where h is the number of hours babysitting.
- Define the independent variable.
 - Define the dependent variable.
 - Solve $C(h)=55$. **Show your work.**
 - Describe the meaning of the solution from part c in the context of the problem.
 - Find $C(7)$. **Show your work.**
 - Describe the meaning of the solution from part e in the context of the problem.
8. Go to Day 21 Activity #4. Compare your answers from #7 above to your activity's answers. Are they the same and correct? If they are not the same, determine which answer is correct.

One method for studying for an exam is to redo exercises previously done in class. It works best when you copy the original problem onto a new sheet of paper, turn the old paper over, and complete the copied problem on the new paper. You can then compare your answers and see if you are getting the same, correct answers.

Continue this method using the references below.

- Day 24 Activity #9
- Day 25 HW #13 and 14
- Day 31 Activity #6
- Day 32 Activity #11
- Day 33 HW #2
- Day 3 HW #9-12, 16
- Day 35 HW #1
- Day 7 HW #1

****Now you should go through the list of Review Topics that you think you need to work on and use this method to study them.**