

6th Grade Math Lesson Plans

Harrison East Elementary School

Day 3

Read "Fishy Math Problems". On a separate sheet of paper complete questions 1-7. **SHOW YOUR WORK.** Afterwards read and complete "North Against South". These answers should be placed inside the individual boxes on the sheet.

Fishy Math Problems

1. a. If a female salmon lays 10,000 eggs and 40% of them hatch, how many hatchlings will there be? _____
- b. If 30% of the hatchlings make it to the ocean, how many will make it there? _____
- c. If 30% of those that get to the ocean make it back to the mouth of the river on their way to the spawning grounds, how many will start up the river? _____
- d. If 50% of the salmon starting upstream actually get to the spawning grounds, and 50% of those are female, how many eggs will be laid? _____

2. Given the following assumptions, answer the questions. The average salmon caught weighs 14 lbs. (6 kilograms). A fishing boat can carry 4200 lbs. (1800 kilograms).

- a. How many fish can be caught and stored in the hold of the boat? _____
- b. If the fisherman gets \$1.39 per pound (\$3.24 per kilogram), how much money can he sell all the fish for? _____
- c. If the captain's expenses for the fishing trip include the following, what will be his profit for the trip?

Pay for helpers: 2 men x 3 days x \$100 each per day = how much? _____

Fuel for boat: \$150 per day x 3 days = how much? _____

Boat rental: \$750 per day x 3 days = how much? _____

Profit = amount left over = how much? _____

3. If the boat must travel 96 miles (150 kilometers) to the fishing grounds, and the boat's average speed is 16 miles per hour (25 kilometers per hour), how long will it take to get there?

4. If the average fish after cleaning and readying for canning weighs 7.5 lbs. (3 kilograms), how many cans containing $\frac{1}{4}$ lb. (.1 kilogram) will one fish fill? _____

5. The cannery used the fish waste to make cat food. Based on the above problems, answer the following questions:

- a. How much waste is there per fish? _____
 - b. How many $\frac{1}{4}$ lb. (.1 kilogram) cans of cat food can be made per fish? _____
 - c. If the cannery gets \$.25 per can of cat food, how much do they make per fish? _____
6. a. If the grocery store sells the cat food for \$.50 per can, and your cat eats one can each day, how much will you spend for cat food per week? _____
- b. How much will you spend per thirty-day month? _____
7. If your part time job after school pays you \$3.00 per hour, how many hours per month will you have to work to pay for cat food each month? _____

North Against South

Here are some "fact finders" you can use for the North Against South game.

1. The number of Union prisoners who died in the Confederate prison at Andersonville during one year period: 260×50	2. The number of times Harriet Tubman made trips into the South to help other slaves escape: $418 + 19$	3. The number of letters found in the name of the state that was the first state to secede from the Union: $(2+6+12+14+7+4+7) + 4$	4. The number of years "Four score and seven" (taken from the "Gettysburg Address") equals: $(13 \times 5) + (43 \times 3) - (89 + 18)$
5. The date the Civil War started: $358,756 + 193,422 + 2,742,831 + 826,852$	6. The number of states that fought for the Confederacy: $143 + 13$	7. The approximate number of black men who served in the Union Army: $(681 \times 16 \times 16) + (729 \times 16)$	8. The number of days the Siege of Vicksburg raged: $94523 - 94475$
9. The amount of dollars it took to be exempt from the Union draft: $(96 + 4) \times 12 + 12$	10. The number of volunteers Lincoln called for to defend and preserve the Union after the Confederates took Fort Sumter: $75 \times 10 \times 10 \times 10$	11. The number of words in the "Gettysburg Address": $(807 \times 3) + 9$	12. The number of slaves an owner or overseer of slaves had to have to be exempt from the Confederate draft: $3,200,000 + 20 + 20 + 20 + 20$
13. The number of Union soldiers Ulysses S. Grant commanded at one point in the Civil War: $4,238 + 7,326 + 489,623 + 31,813$	14. The year in which Robert E. Lee was offered the command of the Union Army: $\frac{1}{4}$ of 7,444	15. The date the Emancipation Proclamation was proclaimed: $(264,824 + 4) + 45,657$	16. The number of Union soldiers killed in seven minutes at Cold Harbor: 50×140
17. The number of months the Siege of Petersburg nearly lasted: $2,000 + 4 + 5 + 10$	18. The number of years Dorothea Dix interviewed, organized, and trained Union Army nurses without pay: $384 + 96$	19. The number of horses Nathan Bedford Forrest had shot out from under him in the course of the Civil War: $3,000 + 100$	20. The number of major prison camps the North and South each had: $(90 \times 60) + 75 - (7 \times 6)$

Make up your own fact finders that challenge students to use any or all of the math skills they have acquired.

Ms. Van Camp's Lessons for Calamity Day #1

Lesson #1

Students will be reviewing the steps of the Scientific Method by completing a crossword puzzle based on their own knowledge. There are various levels to choose from: Easy, Moderate, Difficult.

Select one of the puzzles to print out and complete. Turn in your puzzle the following school day for credit.

Students can also view sample science fair projects to get an idea of what is to be expected of them for our school science fair in April.

www.science-fair-projects-and-more.com

http://kids.lovetoknow.com/wiki/Scientific_Method_Worksheets

Lesson #2

Students will conduct an experiment with household items to demonstrate their knowledge on the scientific method.

Go to www.teach-nology.com to choose a printable science lab from:

*** EXPERIMENTS 1, 2, 7, 10, 11, or 15.

You can find a scientific method outline at:

www.teach-nology.com/worksheets/science/scientificmethod/

Calamity Day 3

13. Go to www.internet4classrooms.com
 14. Click on Grade Level Help tab at the top
 15. Click on 6th Grade Skills on the left side of the page
 16. Under the top section: 6th Grade Skillbuilders for Interactive Practice section: Click on Language Arts
 17. Scroll down to box 2: Reading
 18. Click on choice #1 : Author's Purpose
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10. Go to choice #2: Author's Purpose Activity – Follow directions to complete activities.
 11. Go to choice #3: Author's Purpose – Read text and answer questions.
 12. Go to choice #4: Author's Purpose – Read text and answer questions.
 13. **Go to choice # 1: Audience & Purpose – Read passages, answer questions. PRINT when you have finished in order to turn in to me. (Right click on the mouse and choose the print option from the bottom area.)**
 14. Go to choice #10: Purpose & Point of View – Read questions and answer.