

NAME: _____

MIXED WORD PROBLEMS – DAY 2

DATE: _____

ALGEBRA 1A

1 – 5 Setup each problem, DON'T SOLVE:

1. Vincent has to cut three pieces of rope to complete a science project. The first piece is 3 ft less than the second piece. The third piece needs to be four times the length of the second piece. He wants to cut the 3 pieces from a rope that is no more than 54 ft long. What is the longest each piece can be?
2. Colin has four times as many nickels as quarters, and half as many dimes as he has nickels. If he has a total of \$5.85, how many dimes does he have?
3. The larger of two numbers is 20 more than the smaller. Four times the larger is 70 more than 5 times the smaller. Find the numbers.
4. The ratio of lions to tigers is 3 : 2 at the zoo. If the zoo receives two more lions, the total number of lions and tigers will be 17. How many tigers are there at the zoo.
5. The perimeter of a rectangular tennis court is 228 ft. If the length of the court is 6 more than twice the width, find its dimensions.

6 – 10 Setup and solve the following:

6. A jet flew to the maintenance facility and back. It took four hours less time to get there than it did to get back. The average speed on the way there was 380 mph. The average speed on the way back was 228 mph. How many hours did the trip there take?
7. One ounce of a brine solution contains 2 mg salt. How many mg of salt are there in 30 ounces of solution?
8. Three times the smallest of three consecutive even integers is six more than twice the largest. Find the integers.
9. The numerator of a fraction is twice the denominator. If one is added to the numerator and 2 is subtracted from the denominator, the result is $\frac{11}{3}$. Find the original fraction.
10. The senior class at Northwest High School needed to raise money for the yearbook. A local sporting goods store donated hats and T-shirts. The number of T-shirts was three times the number of hats. The seniors charged \$5 for each hat and \$8 for each T-shirt. If the seniors sold everything and raised \$435, what was the total number of T-shirts sold?