

Math Olympiads Beginner Homework 2

Name: _____

- 1) How many factors does 30 have?
- 2) What is 8 squared?
- 3) Find the greatest common factor (GCF) of 36 and 54
- 4) Find the least common multiple (LCM) of 12 and 15
- 5) Find $3^2 + 4 \div 2 \times (5 + 3)$
- 6) Find the mean of 3,4,8,2,4,3,6,6,3,2. Express your answer as a decimal
- 7) Suppose today is Tuesday. What day of the week will it be 100 days from now?
- 8) The average of five weights is 13 grams. This set of five weights is then increased by another weight of 7 grams. What is the average of the six weights?
- 9) If 24 gallon of water are poured into an empty tank, then $\frac{3}{4}$ of the tank is filled. How many gallons does a full tank hold?
- 10) Of three numbers, two are $\frac{1}{2}$ and $\frac{1}{3}$. What should the third number be so that the average of all three is 1?
- 11) The average of five numbers is 6. If one of the five numbers is removed. the average of the four remaining numbers is 7. What is the value of the number that was removed?
- 12) A certain brand of sardines is usually sold at 3 cans for \$2. Suppose the price is changed to 4 cans for \$2.50. Will the new cost for 12 cans be more or less than the usual cost for 12 cans, and by how much?