

7th Grade Junior Varsity 2013 Practice Problems

1. What is the greatest common factor of 12, 18, and 24?
2. Mei wrote the expression: $4n \times 2$. If n equals 6, what is the value of the expression?
3. Heather stands in the lunch line at school. For her meal, she can choose spaghetti or pizza. She can also have apple juice, orange juice, or milk. How many different combinations of one meal and one drink can Heather choose?
4. Samuel picked 150 strawberries at the strawberry patch. He gave away all the strawberries to 5 friends. If Samuel gave the same number of strawberries to each friend, how many strawberries did each friend receive?
5. Emily earned \$25 babysitting on Friday. On Saturday she babysat for 4 hours at a rate of \$5 per hour. On Sunday she went to the store and spent \$18 on a CD. How much money did Emily have left after buying her CD?
6. At a gymnastics competition, $\frac{3}{10}$ of the gymnasts won a ribbon. What percent of the gymnasts did NOT win a ribbon?
7. Simplify the expression: $2(2^3 - 2^2)$
8. Ben recorded the number of customers who shopped at his pet store every day for one week. The results are shown below:

42, 35, 56, 29, 42, 39, 23

What is the mean number of customers who shopped at the pet store?

9. A box contains 4 chocolate chip muffins, 2 blueberry muffins, and 1 corn muffin. A muffin is randomly chosen from the box. What is the probability that a blueberry muffin or a corn muffin is chosen? Write your answer as a fraction.
10. Jeremy is measuring water for an experiment. He fills two different containers: a 2-liter container and a half-liter container. He uses each container only once. How many milliliters of water does Otto measure for his experiment? (Hint: 1 liter = 1,000 milliliters)

7th Grade Junior Varsity 2013 Practice Problems Answer Key

1. 6
2. 48
3. 6
4. 30 Strawberries
5. \$27
6. 70%
7. 8
8. 38 customers
9. $\frac{3}{7}$
10. 2500 milliliters

