

### B Quiz #31

#### Lessons 121–124

- Solve.  $3 + 4(5) - 10 - 6 + 8 \div 8 = ?$
- Solve for  $x$ . Graph the solution on a number line.  $4x - 6 \leq 10$
- Below are the menu choices for a three-course meal. Create an organized list to show the sample space for a dinner of one appetizer, one entrée, and one dessert.

| Appetizer | Entrée      | Dessert   |
|-----------|-------------|-----------|
| Wings (W) | Pork (P)    | Torte (T) |
| Soup (S)  | Chicken (C) | Pie (PI)  |

- Find the values of  $a$  and  $b$ .
- Kitty wanted to buy a computer. She found one that cost \$440, and she had a coupon for a 12% discount. How much did Kitty pay for the computer?
- A number wheel is divided into 4 equal sections painted yellow, black, green, and orange. In 200 spins, exactly how times will the wheel land on orange?
- Any right rectangular pyramid sliced by a plane parallel to its base produces a rectangle that is **similar** to the base. Imagine that you have a hollow pyramid with a square base. You divide the pyramid into several stories. Each story would have a square floor, and the closer you get to the vertex, the smaller the floor would be. Choose the slice that would not result in such a rectangle.
- Find the product.  $-5(-3)(-4)$
- Simplify the following expression:  $8w + 6w - 5$ . Evaluate the expression when  $w = 5$ .
- The graph represents the cost of potatoes at a farmer's market. Write an equation to represent the relationship between pounds of potatoes ( $p$ ) and their cost ( $c$ ).
- Simplify this complex fraction.  $\frac{3\frac{1}{5}}{1\frac{1}{2}}$
- Study the table. Rank the corn stalks from tallest to shortest.

| Stalk A | Stalk B         | Stalk C                  | Stalk D         |
|---------|-----------------|--------------------------|-----------------|
| 160 in. | 120% of Stalk A | $\frac{1}{4}$ of Stalk A | 1.22 of Stalk A |