

**Intro to Statistics**  
**Foundational Mathematics - Assignment #6**

1. A skateboard at Sports Chalet that costs \$145.00 is on sale for 35% off. If Max buys the skateboard, how much will he be saving?
2. Walmart is has a sale for Halo 3 on the X-Box for 30% off. If the game originally costs \$60, then how much would you save if you purchased it?
3. Tickets to an ASB school barbeque normally cost \$4.00. Carlos needs to sell one more ticket and offers his friend 25% off. How much would Carlos' friend pay for the ticket?
4. A pair of jeans regularly sells for \$24.00. they are on sale of 25% off. What is the sale price of the jeans?
5. A salesperson at a clothing store earns 3% commission on all sales. How much commission does the salesperson earn on a \$250 sale?
6. Kevin bought a motorcycle for \$3,200 and later sold it for a 20% profit. How much did Kevin sell the motorcycle for?
7. Jose has \$3,800 dollars in a Chase bank account. Each year the account earns 4% simple interest. How much interest will be earned in 3 years?
8. Kimberly has \$2,000 in a Bank of America bank account. Each year the account earns 3% simple interest. How much money will she have in her account after 5 years?

**9.** Nancy bought 3 bags of Sun Chips for \$4.11. How much did each bag cost?

**10.** At the market Mark bought three boxes of Cinnamon Toast Crunch. If each box costs \$3.88, how much did Matt pay for all three boxes.

**11.** At the market, Andray bought two pineapples and three watermelons. If a pineapple costs \$1.24 and a watermelon costs \$1.98, then how much did Andray pay for all the fruit?

**12.** The Nintendo Wii console costs \$250, a controller \$60, and a game \$60. How much does the Wii console, with four controllers, and two games cost?

Write the equivalent fraction, decimal, and/or percentage.

**13.**  $\frac{7}{20}$

**P:**

**D:**

**14.** 45%

**D:**

**F:**

**15.** .08

**P:**

**F:**

**16.** .2

**P:**

**F:**

**17.** 6%

**D:**

**F:**

**18.**  $\frac{2}{3}$

**D:**

**P:**

Simplify.

**19.**  $\frac{1}{3} + \frac{3}{7}$

**20.**  $\frac{5}{8} \cdot \frac{4}{7}$

**21.**  $\frac{5}{7} \cdot 4$

$$22. \frac{4}{9} \div \frac{5}{6}$$

$$23. \frac{1}{3} \div 4$$

$$24. \left( \frac{3}{4} - \frac{1}{3} \right) + \frac{1}{6}$$

$$25. -7 - 9$$

$$26. (-7)(-9)$$

$$27. 18.7 \div 1.7$$

$$28. (-13) + (-16)$$

$$29. 12 + (-5)$$

$$30. \frac{-4}{-32}$$

$$31. (-2)(-8)(-4)$$

$$32. (-7) + (-13) + (-9)$$

$$33. -56 \div (-7)$$

**34.** Chelsea is baking sugar cookies.

The recipe calls for  $\frac{2}{3}$  cup sugar. If Chelsea wants to make 2 times the recipe, how much sugar will she need to use.

**35.** The temperature at the beginning of the day is

67° F and drops to -3° F by midnight. How many degrees did the temperature drop?

Write in standard form.    Write in standard form.    Write in scientific notation.    Write in scientific notation.

$$36. 6.18 \times 10^{-4}$$

$$37. 9.03 \times 10^6$$

$$38. .00000675$$

$$39. 8,024,000$$

### Answer Key:

- |                             |                            |                            |                             |                    |                    |                                        |
|-----------------------------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|----------------------------------------|
| 1) \$50.75                  | 2) \$18.00                 | 3) \$3.00                  | 4) \$18.00                  | 5) \$7.50          | 6) \$3,840.00      | 7) \$456.00                            |
| 8) \$2,300.00               | 9) \$1.37                  | 10) \$11.64                | 11) \$8.42                  | 12) \$610.00       | 13) P:35% D:.35    |                                        |
| 14) D:.45 F: $\frac{9}{20}$ | 15) P:8% F: $\frac{2}{25}$ | 16) P:20% F: $\frac{1}{5}$ | 17) D:.06 F: $\frac{3}{50}$ | 18) D:.66 P:66%    |                    |                                        |
| 19) $\frac{16}{21}$         | 20) $\frac{5}{14}$         | 21) $2\frac{6}{7}$         | 22) $\frac{8}{15}$          | 23) $\frac{1}{12}$ | 24) $\frac{7}{12}$ | 25) -16    26) 63    27) 11    28) -29 |
| 29) 7                       | 30) $\frac{1}{8}$          | 31) -64                    | 32) -29                     | 33) 8              | 34) $1\frac{1}{3}$ | 35) 70°F    36) .000618                |
| 37) 9,030,000               | 38) $6.75 \times 10^{-6}$  | 39) $8.024 \times 10^6$    |                             |                    |                    |                                        |