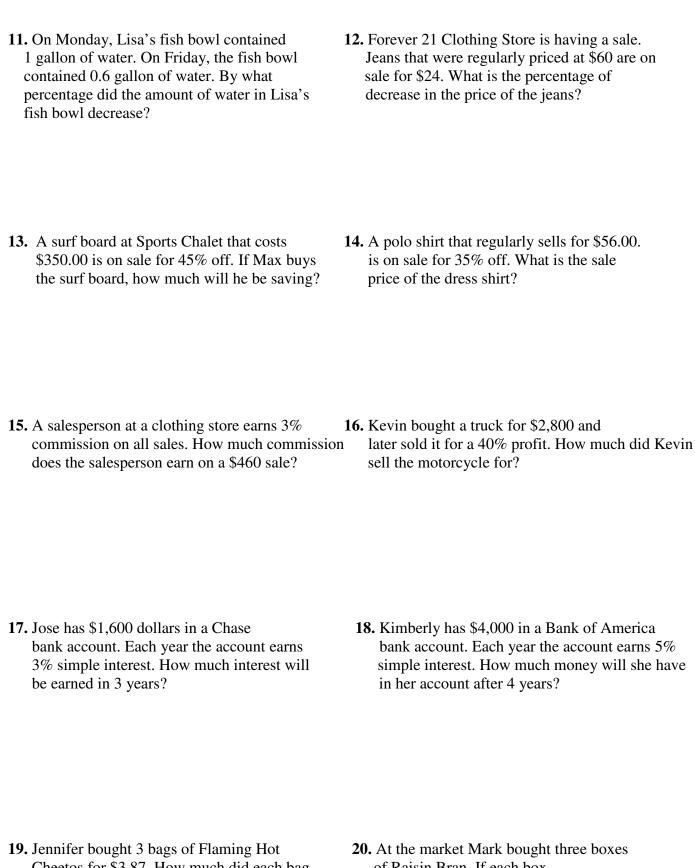**Intro to Statistics**
Foundational Mathematics - Assignment #8

1. Alex makes 6 of her 8 free throws in a basketball game, what is her free throw shooting percentage?

2. David Beckham scores on 4 out of 5 free kicks. What is his percentage for making free kicks?

3. Sandy has 20 pairs of shoes, and 12 of those are tennis shoes. What percent of her shoes are tennis shoes.

4. Of the 400 people surveyed, 300 indicated they voted Barrack Obama for president. If Barrack Obama and John McCain were the only choices for president, then what percentage of those surveyed must have voted for John McCain.

5. Susan has read 240 of the 500 pages from the book Twilight. What percentage of the book does she still have to read?

6. Some people work 270 of the 365 school days in a year. What percentage of the year do they work?

   A   18%

   B   50%

   C   75%

   D   180%

7. What is the percentage of increase from 20 to 28.

8. What is the percentage of decrease from 7 to 4.

9. The cost of an afternoon movie ticket last year was $10.00. This year an afternoon movie ticket costs $12.00. What is the percent increase of the ticket from last year to this year?

10. The weekly sales of the Popular Science magazine increased from 800,000 to 1,000,000. By what percentage did the magazine sales increase?

11. On Monday, Lisa's fish bowl contained 1 gallon of water. On Friday, the fish bowl contained 0.6 gallon of water. By what percentage did the amount of water in Lisa's fish bowl decrease?

12. Forever 21 Clothing Store is having a sale. Jeans that were regularly priced at $60 are on sale for $24. What is the percentage of decrease in the price of the jeans?

13. A surf board at Sports Chalet that costs $350.00 is on sale for 45% off. If Max buys the surf board, how much will he be saving?

14. A polo shirt that regularly sells for $56.00. is on sale for 35% off. What is the sale price of the dress shirt?

15. A salesperson at a clothing store earns 3% commission on all sales. How much commission does the salesperson earn on a $460 sale?

16. Kevin bought a truck for $2,800 and later sold it for a 40% profit. How much did Kevin sell the motorcycle for?

17. Jose has $1,600 dollars in a Chase bank account. Each year the account earns 3% simple interest. How much interest will be earned in 3 years?

18. Kimberly has $4,000 in a Bank of America bank account. Each year the account earns 5% simple interest. How much money will she have in her account after 4 years?

19. Jennifer bought 3 bags of Flaming Hot Cheetos for $3.87. How much did each bag cost?

20. At the market Mark bought three boxes of Raisin Bran. If each box costs $4.28, how much did Matt pay for all three boxes.

21. At the market, Andray bought two peaches and five kiwi. If a peach costs 54 cents and a kiwi costs 67 cents, then how much did Andray pay for all the fruit?

22. The X-Box console costs $300, a controller $50, and a game $60. How much does the X-Box console, with four controllers, and two games cost?

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

23. $\dfrac{2}{5}$

P:

D:

24. 85%

D:

F:

25. .01

P:

F:

26. .4

P:

F:

27. 5%

D:

F:

28. $\dfrac{8}{13}$

D:

P:

Simplify.

29. $\dfrac{3}{4} + \dfrac{5}{6}$

30. $\dfrac{5}{6} \cdot \dfrac{4}{7}$

31. $\dfrac{3}{4} \cdot 8$

32. $\dfrac{4}{9} \div \dfrac{5}{6}$

33. $\dfrac{1}{3} \div 3$

34. $\dfrac{1}{6} + \left(\dfrac{3}{4} - \dfrac{1}{3} \right)$

35. $-8 - 7$

36. $(-8)(-7)$

37. $23.8 \div 1.4$

38. $(-33)+(-18)$ **39.** $21+(-14)$ **40.** $\dfrac{8}{-72}$

41. $(-3)(-5)(4)$ **42.** $(-3)+(-5)+(-4)$ **43.** $-96 \div (-12)$

44. Chelsea is baking Chocolate Chip cookies. The recipe calls for $\dfrac{2}{3}$ cup flour. If Chelsea wants to make 4 times the recipe, how much flour will she need to use.

45. The temperature at the beginning of the day is $61°$ F and drops to $-1°$ 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.

46. 3.02×10^{5} **47.** 5.12×10^{-4} **48.** .0000365   **49.** $7,030,000$

Answer Key:

1) 75%   2) 80%   3) 60%   4) 25%   5) 52%   6) 75%   7) 40%   8) 42%

9) 20%   10) 25%   11) 40%   12) 60%   13) $157.50   14) $36.40   15) $13.80

16) $3,920.00   17) $144.00   18) $4,800   19) $1.29   20) $12.84   21) $4.43   22) $620.00

23) P : 40% D : .4   24) D : .85 F : $\dfrac{17}{20}$ 25) P : 1% F : $\dfrac{1}{100}$ 26) P : 40% F : $\dfrac{1}{25}$ 27) D : .05 F : $\dfrac{1}{20}$

28) D : .61 P : 61%   29) $1\dfrac{7}{12}$ 30) $\dfrac{10}{21}$ 31) 6   32) $\dfrac{8}{15}$ 33) $\dfrac{1}{9}$ 34) $\dfrac{7}{12}$ 35) -15 36) 56

37) 17   38) -51 39) 7   40) $-\dfrac{1}{9}$ 41) 60   42) -12 43) 8   44) $2\dfrac{2}{3}$ 45) 62°F

46) 302,000   47) .000512   48) 3.65×10^{-5} 49) 7.03×10^{6}