Intro to Statistics Foundational Mathematics - Review

- **1.** Lebron James makes 7 of his 10 free throws in a basketball game, what is his free throw shooting percentage?
- **2.** Jake has read 90 of the 200 pages from the book Lord of the Flies. What percentage of the book does he still have to read?
- **3.** The cost of an afternoon movie ticket last year was \$5.00. This year an afternoon movie ticket costs \$8.00. What is the percent increase of the ticket from last year to this year?
- **4.** The weekly sales of the Popular Science magazine increased from 600,000 to 1,000,000. By what percentage did the magazine sales increase?
- 5. On Monday, Lisa's fish bowl contained 2 gallon of water. On Friday, the fish bowl contained 1.2 gallon of water. By what percentage did the amount of water in Lisa's fish bowl decrease?
- **6.** Forever 21 Clothing Store is having a sale. Jeans that were regularly priced at \$25 are on sale for \$18. What is the percentage of decrease in the price of the jeans?
- **7.** A surf board at Sports Chalet that costs \$430.00 is on sale for 35% off. If Max buys the surf board, how much will he be saving?
- **8.** A polo shirt that regularly sells for \$38.00. is on sale for 40% off. What is the sale price of the polo shirt?
- **9.** A salesperson at a clothing store earns 3% commission on all sales. How much commission does the salesperson earn on a \$390 sale?
- **10.** Kevin bought a truck for \$3,600 and later sold it for a 30% profit. How much did Kevin sell the truck for?
- **11.** Jose has \$4,000 dollars in a Chase bank account. Each year the account earns 5% simple interest. How much interest will be earned in 4 years?
- **12.** The X-Box console costs \$250, a controller \$50, and a game \$55. How much does the X-Box console, with four controllers, and two games cost?
- **13.** Jennifer bought 2 bags of Potato Skins for \$3.36. How much did each bag cost?
- **14.** At the market Mark bought three boxes of Honey Comb cereal. If each box costs \$4.92, how much did Mark pay for all three boxes.

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

15.
$$\frac{3}{4}$$

16. 45%

17. .02

P:

D:

P:

D:

F:

F:

18. .8

19. 1%

20. $\frac{4}{9}$

P:

D:

D:

F:

F:

P:

Simplify.

21.
$$\frac{2}{3} + \frac{4}{5}$$

22.
$$\frac{6}{5} \cdot \frac{5}{3}$$

23.
$$\frac{5}{6} \cdot 3$$

24.
$$\frac{5}{9} \div \frac{1}{3}$$

25.
$$\frac{2}{7} \div 3$$

26.
$$\frac{5}{6} + \left(\frac{1}{3} - \frac{1}{5}\right)$$

27.
$$-8-7$$

29.
$$(-63) + (-18)$$

30.
$$18 + (-25)$$

31.
$$(-3)(-4)(-9)$$
 32. $(-3)+(-4)+(-9)$ **33.** $\frac{-9}{72}$

33.
$$\frac{-9}{72}$$

- **39.** Chelsea is baking Chocolate Chip cookies. The recipe calls for $\frac{3}{4}$ cup flour. If Chelsea wants to make 3 times the recipe, how much flour will she need to use.
- **40.** The temperature at the beginning of the day is 61° F and drops to -6° F by midnight. How many degrees did the temperature drop?

41. 5.63×10⁵

Write in standard form. Write in scientific notation. Write in scientific notation. **42.** 7.02×10^{-5}

43. .0000658

44. 81, 200, 000

Answer Key:

- 1) 70%
- 3) 60%
- 4) 66%
- **5**) 40%
- **6)** 28%
- 7) \$150.50
- **8)** \$22.80
- **9**) \$11.70 **10**) \$4,680.00 **11**) \$800.00 **12**) \$560.00 **13**) \$1.68

2) 55%

- **14)** \$14.76

- **15)** P:75% D:.75 **16)** D:.45 F: $\frac{9}{20}$ **17)** P:2% F: $\frac{1}{50}$ **18)** P:80% F: $\frac{4}{5}$ **19)** D:.01 F: $\frac{1}{100}$
- **20)** D:.44 P:44% **21)** $1\frac{7}{15}$ **22)** 2 **23)** $2\frac{1}{2}$ **24)** $1\frac{2}{3}$ **25)** $\frac{2}{21}$ **26)** $\frac{29}{30}$ **27)** -15 **28)** 56

- **29**) -81 **30**) -7 **31**) -108 **32**) -16 **33**) $-\frac{1}{8}$ **34**) -11 **35**) 18 **36**) 394 **37**) 117.36

- **38)** 53.798 **39)** $2\frac{1}{4}$ **40)** 67°F **41)** 563,000 **42)**.0000702 **43)** 6.58×10⁻⁵ **44)** 8.12×10⁷