

**Borough of Manhattan Community College  
Mathematics Department**

**Mat 8 Prof Greenhalgh - Final Exam Review Part 5**

1. In a bag there are 16 blue marbles and 18 green marbles. What fraction of all the marbles in the bag is green?
2. Write as a fraction in lowest terms: 9.12
3. From  $17\frac{1}{18}$  Subtract  $13\frac{7}{12}$
4. Compute:  $4(7 - 3)^2 + 24 \div 3 \cdot 4$
5. Find the smallest number: 0.35     $\frac{2}{9}$     1.27     $\frac{2}{7}$
6. Write as a percent:  $\frac{1}{8}$
7. What is 70 % of 90 ?
8. Express as a decimal rounded to the nearest hundredth:  $\frac{9}{11}$
9. A student's quiz scores were as follows: 3, 9, 10, 10, and 9. What is the student's average?
10. Solve for x:  $\frac{9}{11} = \frac{x}{13}$
11. Prof Jones has 20 students in his first class, 13 students in his second class, and 17 students in his third class. What percentage of his total students is in his third class?
  
12. Maria worked 40 hours and earned \$1,020. What is her hourly rate of pay?
  
13. 21 is 70 % of what number?
  
14. Find the product:  $(0.035)(0.007)$
  
15. Compute:  $\frac{3}{7} \div 6\frac{1}{2}$
  
16. Renato buys 5 ham sandwiches which cost \$6.95 each and 2 tuna sandwiches which cost \$3.95 each. If he gives the cashier a hundred dollar bill, how much change does he receive?
  
17. The ratio of white cars to blue cars in a parking lot is 2:9. If there are 16 white cars in the lot, how many blue cars are there?
  
18. If 35 students took an exam and  $\frac{1}{5}$  of them failed, how many passed?
  
19. Compute:  $-8 + 12 - 6 - 9$
  
20. If a TV set sells for \$3,600 and is on sale for 40 % off, what the new cost of the TV?
  
21. Write the following percent as a fraction in lowest terms: 23 %
  
22. Ms. Smith invests \$2,000 in a CD at her bank which pays 1.5% annual interest not compounded. How much money does she earn from her investment?
  
23. Place the following decimals in decreasing order with largest first:  
  
1.4    0.034    0.0034    0.034    0.3404
  
24. Find the sum:  $\frac{1}{6} + \frac{3}{8}$
  
25. Compute:  $15 - (-9)$

