

Name: _____

Date: _____

MAT 187B Basic Arithmetic Final

Sections 3.4 through 10.5 (excluding sections not covered on syllabus)

1. (3 points) Hillary purchased 4.3 pounds of bananas at \$0.35 per pound. How much did the purchase cost?

2. (3 points) Multiply. 0.098×0.03

3. (3 points) Divide. $168 \div 4.8$

4. (3 points) Evaluate. $6.63 + 8.24 \div (5.76 - 5.68) - 22.5^0$

5. (3 points) The Baseball Boosters Club spent \$833.90 for 62 tickets to the ball game. Find the cost per ticket.

6. (3 points) Use the following table to answer the question. What is the ratio of federal withholding to take home pay? Answer in fractional form.

Total (Gross) Pay	Federal Withholding	State Withholding	Retirement	Insurance	Take-Home Pay
\$285	\$35	\$20	\$28	\$16	\$165

7. (3 points) Find the value of n. $\frac{6}{24} = \frac{n}{28}$

8. (6 points) Complete the table.

Fraction	Decimal	Percent
$\frac{7}{10000}$		
	0.04	
		524%

9. (3 points) Solve. 18 is 30% of what?

10. (3 points) A Vermont truck dealer found that 64% of all the trucks he sold had four-wheel drive. If he sold 150 trucks, how many had four-wheel drive?

11. (3 points) Adam sold encyclopedias last summer to raise tuition money. He sold \$83,500 worth of encyclopedias and was paid \$5,845 in commissions. What commission rate did he earn?

12. (3 points) Sally invested \$3000 in mutual funds earning 11% simple interest. How much interest will she earn in two years?

13. (3 points) Convert 18 kilometers to miles when one kilometer equals .62 miles.

14. (3 points) Convert 40 degrees Fahrenheit to Celsius, given that $C = \frac{5 \times F - 160}{9}$.

15. (3 points) Evaluate. $\sqrt{144} - \sqrt{196} + \sqrt{64}$

16. (3 points) Evaluate. $\frac{3}{7} + \left(-\frac{2}{5}\right)$

17. (3 points) Evaluate. $-6 - 4 - (-10) - 5 - (-8) + (-2)$

18. (3 points) Evaluate. $-5 - (-22)$

19. (3 points) Evaluate. $-2.9 - 13.4$

20. (3 points) Evaluate. $(-2)(-6)(-3)$

21. (3 points) Evaluate. $\frac{7(-3) - 4}{8 \div (-4)(5)}$

22. (3 points) Evaluate. $\left(\frac{1}{3}\right)^2 + 2\left(\frac{3}{5} - \frac{5}{10}\right) \div \left(-\frac{2}{5}\right)$

23. (3 points) Combine like terms. $\frac{3}{9}x + \frac{2}{3}y - \frac{5}{3}x - \frac{1}{4}y + \frac{5}{6}x$

24. (3 points) Simplify. $-\frac{1}{4}\left(-2x+\frac{1}{8}y+\frac{2}{3}z-12\right)$

25. (3 points) Simplify. $3(5x-6)-2(x-4)$

26. (3 points) Solve for x. $x-9=23$

27. (3 points) Solve for x. $12x+23=11x-27$

28. (3 points) Solve for m. $-4\frac{1}{2}m=-36$

29. (3 points) Solve for p. $7p-12=-15$

30. (3 points) Solve for n. $15n-2=7n-26$