

Math 190 - Math 190ABC Chapter 7 Sample Test

1. If $x = 3$, $y = 5$, and $z = 8$, evaluate the following:

a) $5x + 3(2z - y)$

b) $z^2 - \frac{10x}{y} + 5$

2. Replace the ? with < or >.

a) $-5 ? 0$

b) $-5 ? -8$

c) $3 ? -5$

Perform the indicated operations in Problems 3 – 11.

3. $-15 + 5$

4. $-15 + (-5)$

5. $-15 - 5$

6. $-15 - (-5)$

7. $-15(-5)$

8. $-15(5)$

9. $\frac{-15}{5}$

10. $3(7 - 4 \cdot 5) + (-3)^2$

11. 5^{-3}

12. Write the following in scientific notation:

a) 1,450,000

b) 0.00085

c) 2.5 million

Solve for x in problems 13 – 17.

13. $x + 17 = -5$

14. $-5 = x - 17$

15. $5x + 3 = 28$

16. $15 = \frac{x}{3} + 4$

17. $3(2x + 1) + x = 5(x - 6)$

18. The product of a number and 5 is 12 more than the number. What is the number?

19. John scored 8 points less than Jill on a test. If the total of their two scores is 163, what did Jill score?