

**COLLEGE PREP MATH 2**  
**MARKING PERIOD ASSESSMENT**  
**# 1 (MP # 3)**

*Tell whether each inequality is true or false.*

1.  $\frac{8(7) - 5(6 + 2)}{3 \cdot 5 + 1} \geq 1$

2.  $\frac{4(9 + 3) - 8(4)}{2 + 3 - 3} \geq 2$

*Perform the indicated operations.*

3.  $-11 + 20 + (-2)$

4.  $13 + (-19) + 7$

5.  $9 - (-4)$

6.  $-2(-5)(-4)$

7.  $\frac{4 \cdot 9}{-3}$

8.  $\frac{8}{7 - 7}$

9.  $(-5 + 8) + (-2 - 7)$

10.  $(-7 - 1)(-4) + (-4)$

11.  $\frac{-3 - (-5)}{1 - (-1)}$

12.  $\frac{6(-4) - (-2)(12)}{3^2 + 7^2}$

13.  $\frac{(-3)^2 - (-4)(2^4)}{5 \cdot 2 - (-2)^3}$

14.  $\frac{-2(5^3) - 6}{4^2 + 2(-5) + (-2)}$

*Find the value of each expression when  $x = -2$ ,  $y = -4$ , and  $z = 3$ .*

15.  $xz^3 - 5y^2$

16.  $\frac{xz - y^3}{-4z}$

*Name the property illustrated by each equation.*

17.  $7(k + m) = 7k + 7m$

18.  $3 + (5 + 2) = 3 + (2 + 5)$

19.  $7 + (-7) = 0$

20.  $3.5(1) = 3.5$

*Simplify each expression.*

21.  $4p - 6 + 3p - 8$

22.  $-4(k + 2) + 3(2k - 1)$

*Solve each equation, and check the solution.*

23.  $2r - 6 = 8$

24.  $2(p - 1) = 3p + 2$

25.  $4 - 5(a + 2) = 3(a + 1) - 1$

26.  $2 - 6(z + 1) = 4(z - 2) + 10$

27.  $-(m - 1) = 3 - 2m$

28.  $\frac{2x + 3}{5} = \frac{x - 4}{2}$

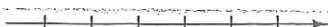
29.  $\frac{2}{3}x + \frac{3}{4}x = -17$

*Solve each inequality. Graph the solutions.*

30.  $-5z \geq 4z - 18$



31.  $6(r - 1) + 2(3r - 5) < -4$



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*Solve each problem.*

*\$1899.94 → Porona*

32. The small business owner in Exercise 14 paid a sales tax of  $6\frac{1}{4}\%$  on his purchase. What was the final bill, including tax, to the nearest cent?
33. A car has a price of \$5000. For trading in her old car, Shannon d'Hemecourt will get 25% off. Find the price of the car with the trade-in.
34. Jennifer Johnston bought textbooks at the college bookstore for \$244.33, including 6% sales tax. What did the books cost?
35. Carter Fenton received a bill from his credit card company for \$104.93. The bill included interest at  $1\frac{1}{2}\%$  per month for one month and a \$5.00 late charge. How much did his purchases amount to?