- 1. If -(3/4) x = 1/2 then what is x?
- 2. Write two different equations with the same solutions as 3(y 1) = 8.
- 3. If 3 x + x x + x x + x x = 0, then what is x?
- 4. If $x^2y^3 = 2$ then what is $x^{10}y^{15}$? Give a numerical answer.
- 5. If yz = 35.26 and $y^2z = 303.236$ then what are y and z? Hint: $y^2z = y \cdot (yz)$.
- 6. 3x + 2y + 2z = 19 (College Board; 2009 CCRS) If these equations 3x + y + z = 14 are true, which of the following is the value of y + z? **a** . -5 **b** . -4 **c** . 0 **d** . 5
- 7. Which of the following expressions is equivalent to $t^2 1$? (t-1)(1+t) (t+1)(1-t) (t-1)(1-t) (t+1)(1+t)
- 8. Which of the following expressions is equivalent to 7 2(3 8x)? 7 - 2(-5x) 7 - 6 + 16x 7 - 6 - 16x 5(3 - 8x)
- 9. If $x \neq y$ and $x^2 y^2 = 5(x y)$ then what is x + y?
- 10. (2009 CCRS) If a bar of soap balances 3/4 of a bar of soap and 3/4 of a pound, how much does the bar of soap weigh?
- 11. One face of a cube has area *x*. What is the volume of the cube? Answer in terms of *x*.