

## Sunday, 07/12/20 Lesson Printable §1

## Multiplying by 101 Problems §1.1

3. 
$$369 \times 101 =$$

4. 
$$34845 \div 101 =$$

9. 
$$(*) (48 + 53) \times 151 =$$

5. 
$$22422 \div 101 =$$

## §1.2 **Equation Problems**

- 1. Find  $32^2 + 2 \cdot 32 \cdot 68 + 68^2$ .
- 2. Find  $2^3 3 \cdot 2^2 \cdot 8 + 3 \cdot 2 \cdot 8^2 8^3$ .
- 3. Find the slope of the line that goes through (5,7) and (6,8).
- 4. Find the line with a slope of 3 and y-intercept of -2.
- 5. Find the equation of the line going through (2, 3) and (7, 13).
- 6. Find the slope of the line with a y-intercept of 3 and a x-intercept of 4.
- 7. At what point do the lines 2x + 9y = 7 and x = 32 4.5y intersect?
- 8. Find the intersection of the lines y = ax + b and y = cx + d in terms of a, b, c, d, given that they are not parallel.
- 9. (Mathcounts) Chris graphs the line y = 3x + 7 in the coordinate plane, while Sebastian graphs the line y = ax + b, for some numbers a and b. The x-intercept and y-intercept of Sebastian's line are double the x-intercept and y-intercept of Chris's line, respectively. What is the value of the sum a + b?