## MATH 5: HANDOUT 14 REVIEW.

HOMEWORK: REVIEW

- **0.** Solve the following equation: 3 5(2 x) = 18
- **1.** Do the operations with binary numbers: 101101 + 11010011011101 - 10010
- **2.** If  $a = 3 \times 10^{-7}$ ,  $b = 5 \times 10^{-5}$ , what is  $a^2$ ? 1/b?  $a^2 \div b^3$ ?
- **3.** For the following problem, you need to know that the speed of light is about 300,000 km/sec, and one year is about  $3 \cdot 10^7$  seconds.
  - (a) How long would it take light to travel from Sun to Earth? The distance is about  $1.5 \cdot 10^8$  km
  - (b) In astronomy, a common unit of distance is a light year: the distance light covers in one year. How many kilometers is it?
- 4. Solve (different letters stand for different digits):

	FORTY
+	TEN
+	TEN
	SIXTY