Math 5 HOMEWORK 4,
October 6, 2019

1. Compute:
   (a) $-4 - (-9) =$ 　　　　 (b) $-(-8 + (-4)) =$ 　　　　 (c) $-3 - (9 + (-6)) =$

   (d) $-3 - (-7) + (-5) =$ 　　 (e) $-2 \cdot (-5) \cdot (-2) =$ 　　 (f) $-\dfrac{3}{5} - (-1\tfrac{1}{5}) =$

2. Open parenthesis, simplify:

   (a) $3(a - 5) - 2(2a - 9) =$ 　　　　 (b) $12x - 3x(x + 4) =$

   (c) $5x - 5(7 - a + x) =$ 　　　　 (d) $-3z - (z - 4) + 2(2z - 5) =$

   (e) $a(a + b) + b(a + 1) =$ 　　　　 (f) $2a(a - 2) - a(a - 1) =$

3. A dog weighs 2 pounds more than a cat. 3 cats and 4 dogs together weigh 43 pounds. How much does a dog weigh? A cat?

4. A bar of soap weighs as much as 3/4 of an identical bar plus 3/4 of a pound. How much does the bar of soap weigh?

5. A father is twice as old as his son. The sum of their ages is 48 years. How old is each of them?

6. An orange costs 2 cents more than an apple. A grapefruit costs as much as 3 oranges. A fruit basket consists of 10 apples, 5 oranges, and a grapefruit.
   (a) If the price of an apple is a, what is the price of an orange? a grapefruit?
   (b) If the fruit basket costs $1.96, how much each of the fruits cost?

7. (a) How many multiples of 3 are there between 1 and 1400?
   (b) How many multiples of 3 are there between 1000 and 1400?