

HOMEWORK 2,
September, 27 2020

1. Compute:

a. $-7 - (-9) =$

b. $-(-6 + (-4)) =$

c. $-3 - (7 + (-6)) =$

d. $-3 - (-4) + (-5) =$

e. $-(-2) + 5 =$

f. $-\frac{3}{4} - (-1\frac{1}{4}) =$

2. Solve equations:

a. $13x + 11 = 2(6x + 1)$

b. $-3x + 8 = -4x - 2$

3. Compute fractions, do not forget to simplify!

a) $\frac{2}{9} + \frac{5}{6} =$

b) $2\frac{5}{8} - \frac{3}{4} =$

c) $\frac{7}{12} + \frac{5}{33} =$

d) $\frac{5}{16} + \frac{3}{64} =$

e) $\frac{1}{24} + \frac{1}{40} =$

f) $2\frac{2}{9} - \frac{1}{3} =$

4. Simplify the following algebraic expressions by distributing and combining like terms:

a. $3a + 2(a + 2b) - 2b =$

b. $3(x - 3y) - y =$

c. $a + 3(a - 2b) - 2b =$

d. $5m + 2(3m - 5) + (2m - 4) =$

e. $\frac{5}{7}k - \frac{2}{3} - \frac{3}{14}k - \frac{1}{3} =$

5. An apple costs 5 cents, and an orange - 7 cents. Marina bought some apples and oranges, 20 fruit in all, and paid \$1.14. How many apples and how many oranges did she buy?

6. A boy is 5 years old and his father is 30 years older. How many years later will the father be four times older than his son?

7. For every \$3 Marisa spends, Andie spends \$5. Andie spends \$120 more than Marisa does. How much does Andie spend?

8. 3 cats and 4 kittens together weigh 24 pounds, whereas 4 cats and 3 kittens weigh 25 pounds. How much does a cat weigh? A kitten?