Math 5 HOMEWORK 4, October 6, 2024

- 1. Compute:
 - (a) -4 (-9) = (b) -(-8 + (-4)) = (c) -3 (9 + (-6) =(d) -3 - (-7) + (-5) = (e) $-2 \cdot (-5) \cdot (-2) =$ (f) $-\frac{3}{5} - (-1\frac{1}{5}) =$
- 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. Write the following expressions as powers:

- 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?