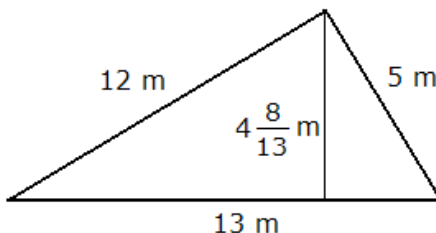


- Use words to write 38 500 600 702. **thirty-eight billion, five hundred million, six hundred thousand, seven hundred two**
- Round 38500600702 to the nearest thousand. **385 000 601 000**
- Consider the triangle shown on the picture.



- Find the perimeter of the triangle. Include units in your computation and answer.  **$P = 30 \text{ m}$**
  - Find the area of the triangle. Include units in your computation and answer.  **$A = 30 \text{ m}^2$**
- List the prime numbers between 40 and 70. **41, 43, 47, 53, 59, 61, 67**
  - Find the average of  $-2\frac{1}{5}$ , 4,  $-\frac{3}{4}$ , 0,  $1\frac{3}{8}$  and  $-\frac{7}{40}$ .  **$\frac{3}{8}$**
  - Find the least common multiple of 320, 60, and 900. **14 400**
  - Consider the following numbers: 4806, 200, 16 200, 61 554, 30 764.
    - Find all numbers from the list that are divisible by 3. **4806, 61 554**
    - Find all numbers from the list that are divisible by 4. **200, 16 200, 61 554, 30 764**
    - Find all numbers from the list that are divisible by 12. **61 554**
  - Fractions.
    - Find  $\frac{15}{7}$  of 3500. **7500**
    - Write  $\frac{14}{25}$  with denominator 100.  **$\frac{56}{100}$**
    - Reduce  $\frac{64}{96}$  to lowest terms.  **$\frac{2}{3}$**
    - Which fraction is larger,  $\frac{15}{19}$  or  $\frac{17}{21}$ ?  **$\frac{17}{21}$**
    - Write  $42\frac{2}{3}$  as an improper fraction.  **$\frac{128}{3}$**
    - Write  $\frac{1002}{31}$  as a mixed number.  **$32\frac{10}{31}$**
  - Use one conversion factor (or unit multiplier) to convert each of the following.
    - 180 inches to feet **14 ft**                      17.5 hr
    - 510 minutes to hours  **$\frac{35}{2}$  hr or  $17\frac{1}{2}$  hr** or    c) 42 feet to inches **504 in**

10. Perform each of the following operations. Show all steps.

a)  $\frac{1}{4} \left( \frac{1}{6} + \left( 1 + \frac{1}{4} \right) \right) - \frac{1}{3} = \frac{1}{48}$

c)  $\left( -\frac{1}{2} \right)^2 + \left( 3 + \frac{1}{2} \right) \cdot \frac{1}{6} = \frac{5}{6}$

b)  $\left( 3 + \frac{1}{2} \right) \cdot \left( 5 + \frac{1}{3} \right) \div \left( 2 + \frac{1}{3} \right) = 8$

d)  $\frac{-2^2 \left( (-1)^2 - 2 \cdot (-3) \right)}{(2 - (-3)^2) (3^3 \div 3^2 + 1)} = 1$

e)  $-3^2 + (-3)^3 - 20 \div (-4) \div (-5) - |-3 - 3| = -43$

11. Evaluate the expression  $a + 8b + 2ab + 4$  if  $a = 4$  and  $b = -\frac{1}{2}$  0

12. Solve each of the following equations. Make sure to check your solution.

a)  $\frac{1}{2}x - \frac{1}{4} = \frac{3}{4}$  2

b)  $\frac{x}{5} + 1 = -1$  -10

c)  $10 - x = 6$  4