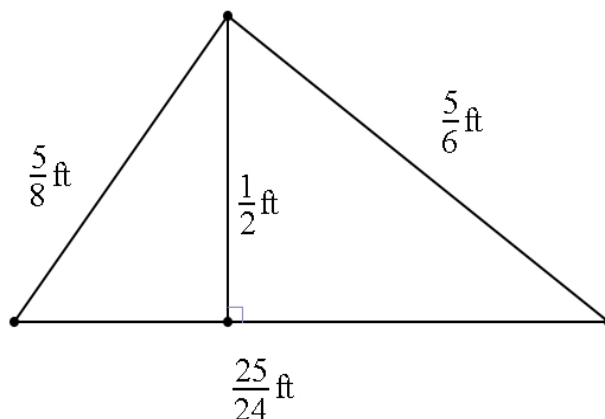


- Use words to write 62 001 020 004.
- Round 4047081 021 to the nearest million.
- Find the perimeter and area of the triangle shown on the picture.



- Find the average of the prime numbers between 55 and 75.
- Find the average of  $\frac{1}{2}$ ,  $-3$ ,  $\frac{-7}{2}$ ,  $\frac{2}{5}$ , and  $\frac{3}{5}$ .
- Find the least common multiple of 420, 1000, and 120.
- Consider the following numbers: 4805, 20 700, 16 281, 6155, 30 765.
  - Find all numbers from the list that are divisible by 3.
  - Find all numbers from the list that are divisible by 5.
  - Find all numbers from the list that are divisible by 15.
- Find  $\frac{11}{19}$  of 3800.
- Write  $\frac{4}{15}$  with denominator 90.
- Reduce  $\frac{120}{2400}$  to lowest terms.
- Which fraction is larger,  $\frac{13}{8}$  or  $\frac{18}{11}$ ?
- Write  $15\frac{4}{7}$  as an improper fraction.
- Write  $\frac{3002}{8}$  as a mixed number.
- Perform the following operations. Do not use a calculator.
  - $6\frac{2}{3} \cdot \frac{1}{4} - \frac{3}{4} =$
  - $\frac{7\frac{2}{3}}{-2\frac{5}{6}} =$
  - $\frac{1}{5} \left( \frac{1}{2} + 2\frac{1}{3} \right) - \frac{4}{15} =$
  - $-3^2 - 2^2 - 1^3 - |-2^2 - 2| + 18 \div (-3) \div (-6) =$
  - $4 \{ [(-5)(-7) - ((-1)^2 - 2^2)(-1^2 - 3^2)] - (-3 + 5)2 \} =$

15. Evaluate the expression  $x^3 - 3x^2y + 3xy^2 - y^3$  if

a)  $x = 3$  and  $y = -1$

b)  $x = -3$  and  $y = 1$

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

a)  $\frac{1}{2} + \frac{1}{8}x = 15\frac{1}{2}$

c)  $\frac{m}{7} - 2 = \frac{15}{3}$

e)  $\frac{3}{4}x + \frac{2}{5} = -\frac{1}{10}$

b)  $\frac{3}{5}p + \frac{14}{2} = 22$

d)  $2\frac{1}{3}a + 5 = 19$

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