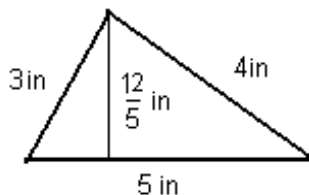


- Use words to write 5 198 040 030.
- Round 5 198 040 030 to the nearest ten million.
- Find the perimeter and area of the triangle shown on the picture.



- List all factors of 78.
- Find the average of  $4\frac{2}{5}$ ,  $\frac{-3}{4}$ ,  $7\frac{3}{10}$ ,  $-8$ , and  $1\frac{1}{20}$ .
- Find the least common multiple of 180, 96, and 75.
- Consider the following numbers: 1357, 2001, 2101 620, 6120 504, 30 762.
- Find all numbers from the list that are divisible by 6.
  - Find all numbers from the list that are divisible by 9.
  - Find all numbers from the list that are divisible by 15.
- Fractions.
  - Find  $\frac{38}{5}$  of 10.
  - $\frac{3}{5}$  of what number is 48?
  - 24 is what fraction of 40?
  - Write  $\frac{3}{8}$  with denominator 48.
  - Reduce  $\frac{96}{120}$  to lowest terms.
  - Which fraction is larger,  $\frac{3}{5}$  or  $\frac{6}{11}$ ?
  - Write  $-13\frac{2}{5}$  as an improper fraction.
  - Write  $\frac{81}{11}$  as a mixed number.
- Use one conversion factor (or unit multiplier) to convert each of the following.
  - 38 inches to feet.
  - 31 hours to minutes.
  - 68 feet to inches.
- Perform the following operations. Do not use a calculator.
  - $\frac{1}{3} \left( \frac{1}{2} - 2\frac{1}{3} \right) + \frac{1}{18} =$
  - $4\frac{2}{3} \div 1\frac{7}{10} \cdot \frac{-17}{20} =$
  - $\left( \frac{-2}{3} \right)^2 - 2\frac{2}{3} \cdot \frac{4}{3} =$
  - $\frac{-[-3 + 4^2 - (4 \cdot 3 - 1)] - (-12) \div (-12)}{(-2) [-3 + (-2)^3 + (-4)^2 - 3]} =$
  - $\frac{-3^2 + (-2)^4 + [(-5)^2 - (-2) \cdot (-11)]^2 + (-1)}{2 [-10 \div (-2) - (-2)^4 \div (-2)^3] + 1} =$

12. Evaluate each of the following expressions.

a)  $x - 10$  if  $x = 4$

c)  $a^2 - 2ab + b^2$  if  $a = \frac{1}{2}$  and  $b = \frac{1}{3}$

b)  $10 - x$  if  $x = 4$

d)  $a^2 + 2ab + b^2$  if  $a = \frac{1}{2}$  and  $b = \frac{1}{3}$

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

a)  $\frac{1}{3}x - \frac{5}{8} = -\frac{2}{3}$

b)  $2x - 5 = -13$

c)  $35 - 2y = 23$

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