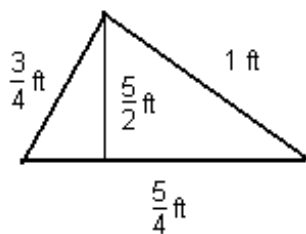


- Use digits to write the number seventeen million, four hundred thirty-nine thousand, five hundred three. **17 439 503**
- Round 419 683 455 to the nearest ten thousand. **419 680 000**
- Compute the perimeter and area of the triangle shown on the picture below. Include units in your computation and answer.  **$P = 3 \text{ ft}$     $A = \frac{25}{16} \text{ ft}^2$**



- List all prime numbers between 30 and 50. **31, 37, 41, 43, 47**
- Compute the least common multiple of 100, 120, and 96. **2400**
- Consider the following numbers: 4801, 26 010, 1650, 6155, 807 605. Find all numbers from the list that are divisible by
  - 26 010, 1650**
  - 26 010, 1650**
  - neither**
- Compute  $\frac{2}{9}$  of 270. **60**
- Write  $\frac{3}{5}$  as a fraction with denominator 100.  **$\frac{60}{100}$**
- Reduce  $\frac{72}{360}$  to lowest terms.  **$\frac{1}{5}$**
- Which fraction is greater,  $\frac{4}{9}$  or  $\frac{6}{13}$ ?  **$\frac{6}{13}$**
- Write  $8\frac{1}{9}$  as an improper fraction.  **$\frac{73}{9}$**
- Write  $\frac{58}{5}$  as a mixed number.  **$11\frac{3}{5}$**
- Perform the indicated operations. Show all steps.
  - $\frac{1}{2} + \frac{2}{7} \cdot \frac{21}{8} = \frac{5}{4}$**
  - $\frac{3}{4} \cdot \frac{12}{27} - \frac{1}{6} = \frac{1}{6}$**
  - $5 \div \frac{3}{7} - \frac{5}{6} = \frac{65}{6}$**

d)  $\frac{9}{10} - \frac{4}{15} \div \frac{3}{8} = \frac{17}{90}$

e)  $\left(\frac{1}{6}\right)^2 + \frac{7}{18} \cdot \frac{3}{21} = \frac{1}{12}$

f)  $\frac{1 + 3\{-2 + 5[1 - 2(-2 + 4^2 \div 2^2 + 1)]\}}{2\{-1 + 3[7 - 2^2(2(-5) + 6 \cdot 2)]\}} = 10$

g)  $7(5 \cdot 2 - 3^2) + 5(6^2 + (-2)^5) = 27$

h)  $\frac{5^2 - \{(2 \cdot 7 - 2^4) + [2^2 - (3^2 - 1)]^2 - 1\}}{12 + \{6 - [5 - 2(-5)]\}} = 4$

14. Evaluate the expression  $a^4 - 2a^3 + 10a^2 - a + 7$  if

a)  $a = -2$  81      b)  $a = 0$  7      c)  $a = 2$  45

15. Evaluate each of the following expressions if  $x = \frac{1}{2}$  and  $y = \frac{1}{3}$ .

a)  $(x - y)^2$   $\frac{1}{36}$       b)  $x^2 - 2xy + y^2$   $\frac{1}{36}$

16. Evaluate each of the following expressions if  $x = -5$  and  $y = 2$ .

a)  $(x + y)^3$   $-27$       b)  $x^3 + 3x^2y + 3xy^2 + y^3$   $-27$

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

a)  $3a - 17 = 7$  8      c)  $\frac{11x - 3}{14} = 10$  13

b)  $x + \frac{1}{3} = -\frac{1}{4}$   $-\frac{7}{12}$       d)  $p + \frac{2}{5} = 4\frac{3}{10}$   $\frac{39}{10}$