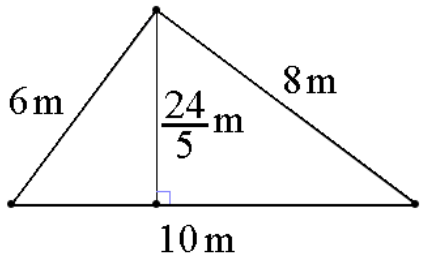
1. Use words to write each of the following numbers.
   a) 120.96 b) 3.096 c) 208 000.000 05
2. Write each of the following decimals as a mixed number. Make sure to reduce the fraction part to lowest terms.
   a) 4.96 b) 3.15 c) 2.25
3. Compute the perimeter and area of the triangle shown on the picture.



4. Compute the least common multiple of 48, 500, and 300.
5. Compute the average of the prime numbers between 50 and 60.
6. Consider the following numbers. 48 006, 9603, 55 440, 3303, 9040
   a) Find all numbers from the list that are divisible by 4.
   b) Find all numbers from the list that are divisible by 5.
   c) Find all numbers from the list that are divisible by 9.
   d) Find all numbers from the list that are divisible by 36.
7. 35% of a number is 224. Find this number.
8. Compute 75% of 300.
9. 36 is what percent of 200?
10. Convert 7 600 000 centimeters to kilometers.
11. If we increase a number by 13 and multiply this sum by 7, we get 77. Find this number.
12. The ratio of cats to dogs is 14 to 9. How many dogs are there if the number of cats is 420?
13. The area of a rectangle is $8\,\text{in}^2$. Find the width of the rectangle if its length is $3\frac{1}{4}$ inches.
14. Sally is making \$1800 per month. How much would she make in a month after a 4% raise?
15. A TV went on a 15% off sale. The sale price is \$612. Find its original price.
16. The population of a town grew from 10 000 000 to 10 800 000. What percent of a change does this represent?

17. Perform the following operations. Do not use a calculator.

    a) $2.05 \cdot 1000 =$

    b) $6.0308 \cdot 100 =$

    c) $82.34 \div 1000 =$

    d) $\dfrac{2(-5+3)}{-2^2} - \dfrac{(-3^2+2)3}{3-(-4)} =$

    e) $\dfrac{2}{5}\left(\dfrac{3}{8} - \dfrac{1}{2}\right) + \left(-\dfrac{1}{2}\right)^2 =$

18. Evaluate $(a-b)(a^2+ab+b^2)$ if $a=-3$ and $b=-5$.

19. Evaluate $2ab - \dfrac{2}{3}a + b - \dfrac{1}{3}$ if $a = -3 - \dfrac{1}{2}$ and $b = -\dfrac{5}{3}$.

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

    a) $-3x + 8 = -1$

    b) $5a - \dfrac{1}{2} = \dfrac{1}{6}$

