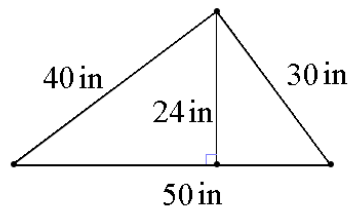


- Use digits to write each of the following numbers.
  - two hundred eight thousand, five and twenty-five thousand, nine millionths **208 005.025009**
  - three thousand, two and thirty thousand, fifteen ten millionths **3003.0030015**
- Use words to write each of the following numbers.
  - 40 010 030.0045 **forty million, ten thousand, thirty and forty-five ten thousandths**
  - 3.010045 **three and ten thousand, forty-five millionths**
- Write the following decimals as mixed numbers. Make sure to reduce the fraction part.
  - 75.75  **$75\frac{3}{4}$**
  - 3.6  **$3\frac{3}{5}$**
- Compute the perimeter and area of the triangle shown on the picture.  **$P = 120$  in,  $A = 600$  in<sup>2</sup>**



- Compute the least common multiple of 640, 200, and 180. **28 800**
- Compute the average of  $-3\frac{1}{2}$ ,  $7\frac{2}{3}$ , 0,  $-5\frac{5}{6}$ , 0, 6, and  $-2$ .  **$\frac{1}{3}$**
- Consider the following numbers. 4864, 125, 540, 450, and 9010
  - Find all numbers from the list that are divisible by 4. **4864, 540**
  - Find all numbers from the list that are divisible by 5. **125, 540, 450, 9010**
  - Find all numbers from the list that are divisible by 20. **540**
- 56 is what percent of 350? **16%**
- 130% of a number is 52. Find this number. **40**
- Find 135% of 400. **540**
- Convert 1152 inches to yards. **32 yd**
- If we multiply a number by 13 and increase this product by 40, we get  $-25$ . Find this number.  **$-5$**
- The ratio of adults to children on the field trip was 3 to 20. How many adults were there if the number of children were 420? **63**
- The area of a rectangle is 16 in<sup>2</sup>. Find the width of the rectangle if its length is  $\frac{1}{4}$  inches.  **$64$  in**
- Sally is making \$1400 per month. How much would she make in a month after a 6% raise? **\$1484**
- A TV went on a 20% off sale. The sale price is \$680. Find its original price. **\$850**
- The population of a town grew from 125 000 to 150 000. What percent of a change does this represent? **20% increase**

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

a)  $1.32 + 2.56 = 3.88$

d)  $400100 \div 1000 = 400.1$

b)  $14.76 - 0.51 = 14.25$

e)  $\frac{1}{4} \left( 1\frac{1}{5} - 4\frac{4}{10} \right) + 1 = \frac{1}{5}$

c)  $128.032 \cdot 10\,000 = 1\,280\,320$

f)  $\frac{-3^2(-2) + (-2)(6)(-5) \div 12 + 2}{(-2)^2 + (-1)^2} - \frac{-2^2}{(-2)^2} = 6$

19. Evaluate  $2a^2 + ab - b^2$  if

a)  $a = -2$  and  $b = 7$   $98$

b)  $a = -\frac{1}{2}$  and  $b = 2\frac{1}{2}$   $-7$

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

a)  $\frac{6}{7}x + \frac{3}{5} = \frac{11}{35}$   $-\frac{1}{3}$

b)  $12 - 5x = -28$   $8$