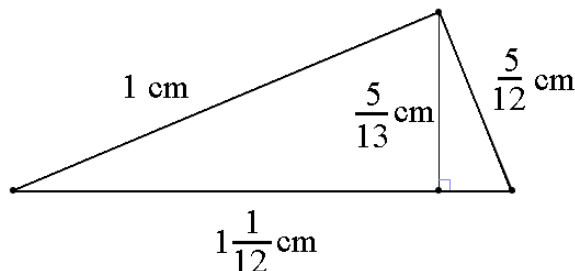


1. Use words to write 100 010 001. **one hundred million, ten thousand, one**
2. Compute the perimeter and area of the triangle shown on the picture. $P = \frac{5}{2}$ cm, $A = \frac{5}{24}$ cm²



3. Find the least common multiple of 350, 200, and 90. **12 600**
4. Write 44% as a reduced fraction. $\frac{11}{25}$
5. Write $\frac{3}{20}$ as a percent. **15%**
6. Compute the average of the prime numbers between 10 and 20. **15**
7. $\frac{3}{8}$ of what number is 27? **72**
10. Convert 42 meters to centimeters. **4200 cm**
8. Find 27% of 200. **54**
9. 60 is what fraction of 1000? $\frac{3}{50}$
11. Convert $7\frac{1}{2}$ feet to inches. **90 in**
12. Compute the average of -3 , $-2\frac{1}{3}$, $\frac{3}{4}$, and $1\frac{11}{12}$. **$-\frac{2}{3}$**
13. On the clown meeting, the ratio of sad clowns to happy clowns was 2 to 7. There were 18 sad clowns. How many happy clowns were there? **63**
14. The original picture was 8 inches wide and 14 inches long. We want to enlarge this picture so that its width measures 12 inches. How long should this picture be? **21 in**
15. The area of a rectangle is 14 in². Find its width if its height is 4 inches long. $\frac{7}{2}$ in
16. Perform the following operations. Do not use a calculator.
- a) $\frac{1}{2} \left(\frac{2}{5} \cdot 2\frac{1}{2} + \frac{3}{7} \cdot \left(2\frac{1}{3} \right) \right)^2 = \mathbf{2}$
- b) $\frac{\frac{1}{3} + \frac{1}{2}}{\frac{1}{3} - \frac{1}{2}} = \mathbf{-5}$
- c) $(-5^2 - 3 \cdot (-7)) + (-5^2 - 3 \cdot (-7))^2 + (-5^2 - 3 \cdot (-7))^3 = \mathbf{-52}$

17. Evaluate the expression $\frac{2x - 3y}{3y - 2x}$ if

a) $x = 4$ and $y = -5$ -1 b) $x = \frac{1}{4}$ and $y = -\frac{1}{6}$ -1

18. Evaluate $a^2 + b^2 - c^2$ if $a = \frac{3}{5}$, $b = -\frac{4}{5}$, and $c = -1$. 0

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

a) $\frac{3}{5}a + 1 = \frac{3}{10}$ $-\frac{7}{6}$ b) $7 - 4x = 11$ -1 c) $\frac{3}{8}m + \frac{5}{6} = \frac{1}{12}$ -2

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