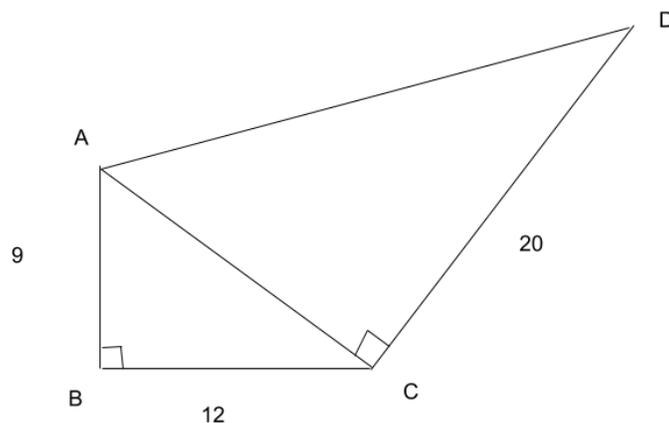


1. Find $(5 - (4 - (3 - (2 - (1 - 0)))))$
2. Find $-3 \times 2 + 3 \times 3 - 12 \div 4$
3. One inch is approximately 2.54 centimeters. Parth is 65 inches tall. To the nearest centimeter, how much taller is he than 5 feet?
4. A gallon of paint can cover 20 square meters. A rectangular wall has a length of 10 meters and a width of 14 meters. How many gallons of paint are needed to cover the wall?
5. Find the sum of the prime numbers between 1 and 10 inclusive.
6. Bob has bathtub that leaks at a rate of 2 gallons per hour. If Bob's bathtub has a capacity of 8 gallons, and he turns on a pump that puts water in at 4 gallons per hour, how many hours will it take him to fill up his bathtub given that it starts empty?
7. Jeffrey and Annabelle are at Tea Place. The total cost for their drinks is \$9. Jeffrey is trying to be nice, and says he will pay a value twice as much as Annabelle paid plus an additional 48 cents. Find the total amount Jeffrey pays.
8. Define a function $x \langle ! \rangle y = xy + x + y + 1$. Find $(3 \langle ! \rangle 4) \langle ! \rangle 5$.
9. What is the sum of the GCD (Greatest Common Divisor) and LCM (Least Common Multiple) of 60 and 18?
10. Find the value of $2 + \frac{1}{1 + \frac{1}{2 + \frac{1}{3}}}$
11. Rick is taking a 6 problem true/false test that he has not prepared for. Before the test, his teacher tells him that there are either 0 or 3 problems with "True" as answers. What is the maximum amount of problems Rick can guarantee to correctly solve using his teacher's information?
12. At Math Point High School, there are a total of 60 students. $\frac{3}{4}$ of students like chocolate ice cream, $\frac{3}{5}$ of students like vanilla ice cream, and $\frac{1}{6}$ of students do not like either. Find the number of students who like both chocolate and vanilla ice cream.
13. Find the length of AD in the diagram below.



14. A regular polygon with an interior angle of 120° and a side length of 2. A different regular polygon with an interior angle of 90° has the same perimeter as the first polygon. Find the area of the second polygon.

15. Bob travels to school from his home on 5 different days. On day 1, he travels at 60 miles per hour. On day 5, he travels at 40 miles per hour. Given that the time it takes for him to reach school on these 5 days forms an arithmetic sequence, find the speed in which he travels to school on day 3.
16. Sherry picks 2 cards out of a standard 52-card deck, what is the probability that both of the cards are spades?
17. The sum of two dice rolls is recorded 108 times. Find the expected number of 4's recorded.
18. Which of the following three fractions is the biggest: $\frac{\sqrt{3}}{5}$, $\frac{3}{8}$, or $\frac{\sqrt{3}}{4}$?
19. Tom has the fractions $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \dots, \frac{99}{100}$. He can choose to flip the numerators and denominators of $\frac{k}{k+1}$ and all the fractions that come after it in the given sequence. Find the k he should pick such that the product of all the unchanged AND changed fractions is 1.
20. Find the number of ways to arrange all of the letters $\{P, A, N, P, P, A, N, L, P\}$ to form a palindrome that doesn't start with the letter N.
21. The product of 2 integers minus their sum is 47. Find the number of possible ordered pairs of the 2 numbers.
22. Parth and Andy are both running 100 laps around a track. Parth runs every lap that is a multiple of 3 in 6 minutes, but otherwise runs laps in 8 minutes. On the other hand, Andy runs every lap with an odd number of divisors in 5 minutes, but otherwise runs laps in 9 minutes. When Parth finishes, what lap is Andy on?
23. A quarter circle with radius 4 is centered at the origin, and is in the first quadrant (bounded by the x and y-axis). The line $x = 2$ is drawn. Find the area of the portion of the quarter circle to the right of the line $x = 2$.
24. For how many integers n between 1 and 2018 inclusive, is the units digit of n^{2018} equal to 6?
25. An equiangular (all of the angles are equal) hexagon $ABCDEF$ has sides $AB = 6$, $BC = 8$, $CD = 10$, and $DE = 12$. Find the length of FA .