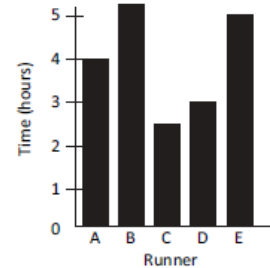


NAME: _____

1)

The graph shows the length of time it took five runners to complete a marathon. What was the median time of the five runners?



2)

It takes a mechanic 4 hours to install carburetors in 3 cars. At this rate, how many minutes will it take the mechanic to install carburetors in 5 cars?

3)

In a certain parking lot, there are 2 black cars, 3 blue cars, 4 red cars and 3 green cars. If there are no other cars in the parking lot, what is the probability that a car randomly chosen from the parking lot is *not* green? Express your answer as a common fraction.

4)

What is the degree measure of an interior angle of a regular pentagon?

5)

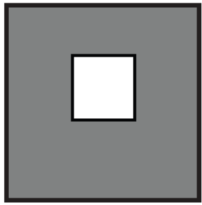
Joe has 37 coins consisting of nickels, dimes and quarters. There are four more nickels than dimes and two more quarters than nickels. What is the total number of quarters that Joe has?

6)

It takes 6 cubes to build a staircase containing 3 rows. How many cubes are needed to build a staircase that contains 11 rows?



7)



In the figure shown, what is the greatest number of nonoverlapping regions into which the shaded region can be divided with exactly two lines?

8)

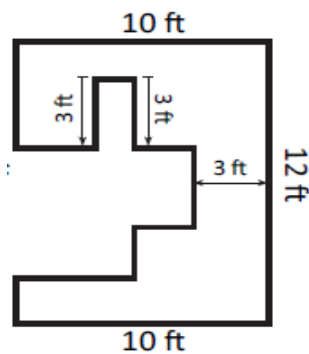
A dog is chasing a rabbit that has a head start of 150 ft. If their leaps are synchronized, and the dog leaps 9 ft every time the rabbit leaps 7 ft, in how many leaps will the dog catch up to the rabbit?

9)

For a certain set of five numbers, the mean of all but the largest number is 80, and the mean of all but the smallest number is 90. What is the range of the set of five numbers?

10)

If all the angles in the figure shown are right angles, what is the perimeter of the figure?



11)

What is the product of $\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \cdots \times \frac{2006}{2005}$?

12)

How many two-digit numbers have digits whose sum is a perfect square?

13)

Antonette gets 70% on a 10-problem test, 80% on a 20-problem test and 90% on a 30-problem test. If the three tests are combined into one 60-problem test, which percent is closest to her overall score?

14)

The average age of the 6 people in Room A is 40. The average age of the 4 people in Room B is 25. If the two groups are combined, what is the average age of all the people?

15)

Each of the 39 students in the eighth grade at Lincoln Middle School has one dog or one cat or both a dog and a cat. Twenty students have a dog and 26 students have a cat. How many students have both a dog and a cat?

16)

Using only pennies, nickels, dimes, and quarters, what is the smallest number of coins Freddie would need so he could pay any amount of money less than one dollar?

17)

The top of one tree is 16 feet higher than the top of another tree. The height of the 2 trees are at a ratio of 3 : 4. In feet, how tall is the taller tree?

18)

The lengths of the sides of a triangle in inches are three consecutive integers. The length of the shorter side is 30% of the perimeter. What is the length of the longest side?

19)

The hundreds digit of a three-digit number is 2 more than the units digit. The digits of the three-digit number are reversed, and the result is subtracted from the original three-digit number. What is the units digit of the result?

20)

The price of a coat that originally sold for \$80 is reduced by 20%. A different coat that originally sold for \$100 is marked down 30%, and then a 10% discount is given on the reduced price. After all of the reductions, what is the positive difference in the prices of the two coats?

21)

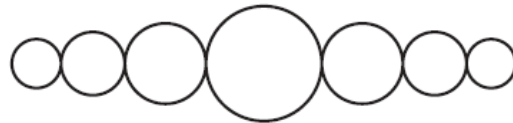
A box contains only red, blue and green tokens. If the probability of randomly choosing a red token is $\frac{1}{5}$ and the probability of randomly choosing a blue token is $\frac{1}{3}$, what is the probability of randomly choosing a green token? Express your answer as a common fraction.

22)

How many three-digit positive integers are square numbers?

23)

A necklace is made of beads with centers that are collinear, as shown. The beads have diameters of integer lengths a , b , c and d cm such that $a:b:c:d = 1:2:3:4$. What is the smallest possible total length of the seven beads on the necklace?



24)

The number 6D45, where D represents a digit, is divisible by 3. What is the sum of all possible values of D?

25)

Angie is purchasing stickers to make house numbers for the houses in her neighborhood. If the houses are numbered consecutively from 101 to 250 and each sticker contains a single digit, how many stickers containing the digit 3 does Angie need to purchase?