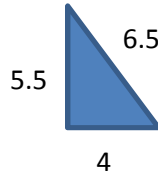1.) The distance from Birmingham to Atlanta is 2.25 inches on a map. If the map scale is 1/4 inch=2 miles, what is the distance in miles?

A.   18 miles   B. 12 miles   C. 4.5 miles   D. 14 miles   E. NH

2.) Find the positive difference of the perimeter and the area of the triangle.

A.   5.5   B. 6   C. 5   D. 3   E. NH
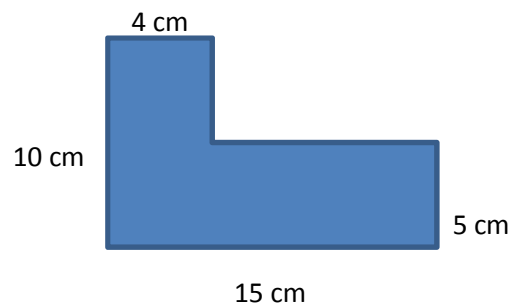
3.) If you roll a six sided die, what are the chances that you will roll an odd number? Express your answer as a ratio in simplest form.

A.   3:6   B. 3:5   C. 1:3   D. 1:2   E. NH

4.) A tornado warning began at noon one day and ended 1000 minutes later. At what time did the warning end?

A. 4:20 P.M.   B. 8:40 A.M.   C. 8:20 P.M.   D. 4:40 A.M   E. NH

5.) What is the perimeter of the shown polygon?

A.   34 cm   B. 50 cm   C. 40 cm   D. 75 cm   E. NH

6.) The sale ad read: "Buy three tires at the regular price and get the fourth tire for $3." Jack paid

$240 for a set of four tires at the sale. What was the regular price of one tire?

A. $79   B. $60   C. $60.75   D. $81   E. NH

7.) Which of these numbers is the smallest?

   A. 0.66   B. 6/10   C. 66/100   D. 13/20   E. 2/3

8.) Before you are able to take a bite of your candy bar, a friend comes along and breaks off ⅓ of the bar. Another friend then takes ½ of what was left. What part of the original bar do you have left?

   A. ½   B. 1/3   C. 1/6   D. 2/3   E. NH

9.) Rebecca takes 20 minutes to cut a stick of bamboo into 5 pieces. How long does it take her to cut another stick into 9 pieces?

   A. 45 min   B. 37 min   C. 35 min   D. 40 min   E. NH

10.) Express the decimal sum as a reduced fraction.

$$0.45 + 0.305 + 0.05$$

   A. 17/ 200   B. 355 / 200   C. 17/ 200   D. 161/500   E. NH

11.) When k is multiplied by 5 and then 35 is added to the product, the result is 100. What is the value of k?

   A. 65   B. 30   C. 13   D. 60   E. NH

12.) A rectangular prism has a length of 8 centimeters, a width of 2 centimeters, and a height of 3 centimeters. What is the surface area?

   A. 48 cm sq   B. 92 cm sq   C. 96 cm sq   D. 34 cm sq   E. NH

13.) A triangular cracker has a height of 4 cm and a base of 5 cm. Find the area of the cracker.

   A. 10 cm sq   B. 20 cm sq   C. 40 cm sq   D. 5 cm sq   E. NH

14.) Write an equation to represent the function displayed in the table.

Input, x	1	2	3	4	5
Output, y	8	15	22	29	36

A. Y = 9x − 1   B. y = 10x − 2   C. y = 8x − 3   D. y = 7x + 1   E. NH

15.) Cindy's mom gave her $15. She also saves $5 each week to buy video games. Write an inequality to find the number of weeks Cindy must save, so that she has at least $210.

A. 15(5 + w) ≥ 210   B. 5w + 15 ≤ 210   C. 5w + 15 ≥ 210   D. 15 + 5 + w = 210   E. NH

16.) The area of Trina's bedroom is 96.9 feet. What is the length of her bedroom?

W = 9.5

A. 10.1 ft   B. 9.2 ft   C. 9.0 ft   D. 1.2 ft   E. NH

17.) A model plane is 100 times smaller than an actual plane. The length of the model is 4.8 inches. What is the actual length of the plane?

A. 480 ft   B. 40 ft   C. 20 ft   D. 8 ft   E. NH

18.) If a quart is ¼ of a gallon and a pint is 1/8 of a gallon, how much of a quart is a pint?

A. ½ qt   B. ¼ qt.   C. 1/8 qt.   D. ¾ qt.   E. NH

19.) The length of a kitchen wall is 24 2/3 feet long. A border will be placed along the wall of the kitchen. If the border comes in strips that are each 1 ¾ feet long, how many strips of border are needed?

A. 15   B. 14   C. 7   D. 8   E. NH

20.) A cookie recipe calls for ¼ cup of peanut butter. If you tripled the recipe, how much peanut butter would you need? Express your answer as a decimal.

A. 0.25 c   B. 1.25 c   C. 0.75 c   D. 1.75 c   E. NH

21.) Sound travels through sea water at a speed of about 1,500 meters per second. At this rate, how far will sound travel in 2 minutes?

A. 18,000 mps   B. 180,000 mps   C. 12,000 mps   D. 120,000 mps   E. NH

22.) The clock in the bell tower rings every half hour. How many times will it ring in one week?

    A. 168   B. 672   C. 504   D. 336   E. NH

23.) A tutor charges Lucy $30 for 2 hours plus a $5 fee for materials needed. At the same rate, how much would she charge for Sam for 5 hours?

    A. $20   B. $80   C. $75   D. $ 70   E. NH

24.) Order from least to greatest. 2/3 ;   61 % ; 0.68 ;   5/6

    A. 2/3   ;   61 % ; 0.68 ;   5/6
    B. 2/3   ;   0.68   ; 5/6 ; 61 %
    C. 61% ;   2/3   ; 5/6 ; 0.68
    D. 61% ;   5/6   ;   2/3 ; 0.68
    E. NH

25.) Trent downloaded 3 times as many songs as Harriet last month. Harriet downloaded 5 fewer than Barry, but 3 more than Morgan. Barry downloaded 10 songs. How many songs did Morgan download?

    A. 5   B. 3   C. 2   D. 15   E. NH

TB1.) Tony has coins worth $3.60 in his pocket. He has 7 quarters, 11 dimes, and the rest of his coins are nickels. How many nickels does he have?

TB2.) Laura can paint plywood at a rate of 3.2 square feet per minute. How many minutes does it take her to paint both sides of a 4 foot by 8 foot piece of plywood?

TB3.) How many of these five fractions are between 1.5 and 2?

  7/8   7/4   7/5   4/3   23/15