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# Placement Test

1. 
$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 17 \\ + 5 \\ \hline \end{array}$$

4.  $18 + 7 =$

5.  $18 - 9 =$

6.  $18 + 24 =$

7. 
$$\begin{array}{r} 142 \\ - 59 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 4006 \\ - 287 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 6,247.8 \\ - 368.24 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 63 \\ 48 \\ 77.2 \\ 53 \\ \hline + 19 \\ \hline \end{array}$$

11.  $9 \times 7 =$

12.  $.12 \overline{)195.97}$

13.  $200 \times 40 =$

14.  $23.5 \times 17.003 =$

Look at the number below and then answer the following questions about place value.

10,759,863,422

15. Which number is in the Ten Thousand column? \_\_\_\_\_  
Which number is in the One Hundred Million column? \_\_\_\_\_  
Which column has a zero in it? \_\_\_\_\_

16.  $\frac{2}{3} - \frac{2}{6} =$

17.  $\frac{4}{7} \div \frac{3}{4} =$

18.  $3\frac{9}{24} + 2\frac{8}{12} =$

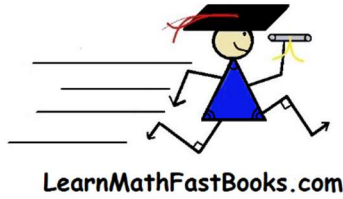
19.  $6\frac{1}{3} \times 2\frac{1}{2} =$

20. How much is 20% of 870? \_\_\_\_\_

21. Write 38% as a decimal number. \_\_\_\_\_

22. Write 45 cents as a fraction. \_\_\_\_\_

23.  $-8 + (-15) =$



# Placement Test page 2

Answer the following questions. Reduce your answers down to the smallest possible denominator.

24.  $-\frac{6}{8} \div 3 =$

25.  $-4\frac{3}{8} \times -2\frac{1}{7} =$

26. Circle the bigger fraction.  $\frac{32}{45}$  or  $\frac{2}{3}$

Solve for x or solve the equation.

27.  $x - 12 = 144$

28.  $3x = 24$

29.  $5^3 + \sqrt{121} =$

30.  $x^2 = 64$

31.  $(3^2 - 3) + 8 \times 4 \div 2 - 1 =$

32.  $2ab + 3ab =$

33.  $7a^2 + a^2 - 2a =$

34.  $2xy \times 8xyz =$

35.  $3a(4a + 9c) =$

Answer the following questions about a line with coordinates (3, 6) and (6, 8).

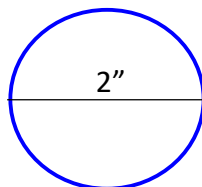
36. What is the slope of that line? \_\_\_\_\_

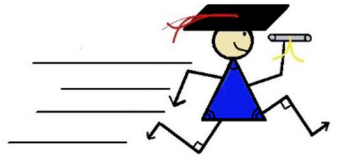
37. What is the y-intercept of that line? \_\_\_\_\_

38. Write a linear equation for that line. \_\_\_\_\_

39. If you were to graph that line, would the line go uphill, downhill, flat or vertical?

40. Find the circumference and the area of the circle below. A = \_\_\_\_\_ C = \_\_\_\_\_





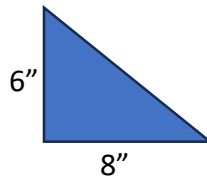
# Placement Test page 3

41. Name the relationship between the two lines. Are they parallel, perpendicular, perimeter or neither.

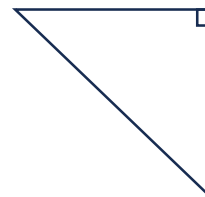
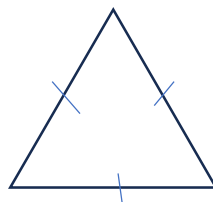
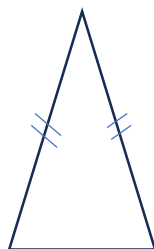


\_\_\_\_\_

42. What is the length of the hypotenuse in the right triangle below? \_\_\_\_\_



43. Name the three special triangles below.



\_\_\_\_\_

Use the Pythagorean Theorem to solve for  $x$  in the two right triangles below.

