

# Placement Test

## For the *Learn Math Fast System*

Answer the following problems. As soon as it gets too difficult, stop and read the answers to find out your grade level according to the *Learn Math Fast System*.

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.  $8 + 7 =$

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

11.  $9 \times 7 =$

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

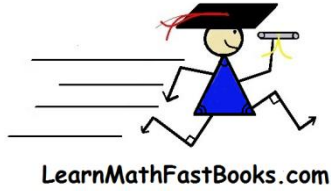
13.  $200 \times 40 =$

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 Thousands column?  
Which number is in the One Hundred Millions column?  
Which column has a 0 in it?



# Placement Test page 2

Answer the following problems. Be sure to reduce your answers whenever possible.

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.

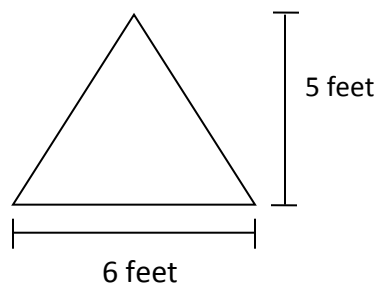
22. Write 45 cents as a fraction.

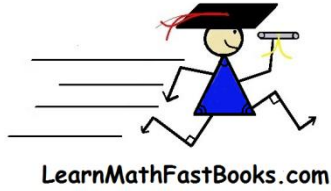
23.  $-8 + -15 =$

Be sure to always reduce your answer down to the smallest possible denominator.

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

25. What is the area of the triangle below?





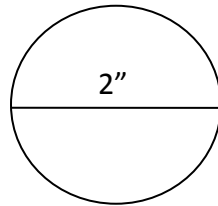
## Placement Test page 3

Solve for x.

26.  $\frac{6}{36} = \frac{x}{12}$

27.  $8^2 =$

28. Find the circumference and area of the circle below?



29. Circle the bigger fraction?

$$\frac{32}{45} \text{ or } \frac{2}{3}$$

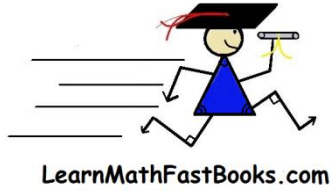
30.  $5^3 + \sqrt{121} =$

Solve for x.

31.  $3x = 24$

32.  $\frac{56}{x} = 8$

33.  $3x + 9 = 30$



## Placement Test page 4

Use the proper Order of Operations to solve for x.

34.  $3 \cdot 4^2 + 5 \cdot 5 - \sqrt{4} \cdot 4 = x$

Solve for x in terms of y.

35.  $5 + x = y$

Use the Slope Formula to solve the slope of the line formed with the following coordinates.

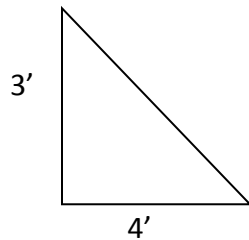
$$\text{Slope formula } m = \frac{y_2 - y_1}{x_2 - x_1}$$

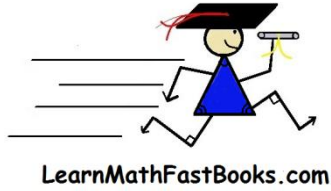
36. (3, 2) and (5, 5)

37. Use the slope and the coordinates from problem #36 to find the Y-intercept of that line.

Use  $y = mx + b$  to find the Y-intercept.

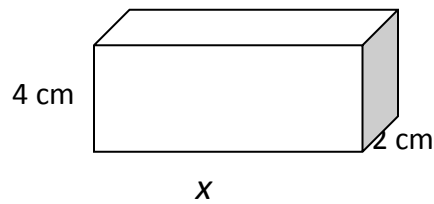
38. What is the length of the hypotenuse in the triangle below?





# Placement Test page 5

39. The cube below is  $64\text{cm}^3$ . Solve for  $x$ .



40. Find the volume of a sphere with a radius of 3". Use the volume formula  $v = \frac{4}{3}\pi r^3$ .

41. Solve for  $x$  below.

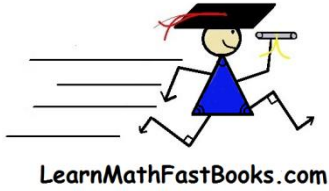
$$|-25| + |x| = |30|$$

42. Simplify the expression below.

$$\frac{5ab + 5b}{5}$$

43. Use the Distributive Property of Multiplication to simplify the problem below.

$$(y + 2)(y - 4)$$



## Placement Test page 6

44. Factor the quadratic below.

$$x^2 + 8x + 15$$

45. Solve for x by completing the square. Hint:  $\left(\frac{b}{2}\right)^2$

$$x^2 - 2x - 2 = 0$$