

Answers

To the *Learn Math Fast System*Placement Test

5.
$$18 - 9 = 9$$

DID YOU ANSWER ALL 5 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 1st grade math.

If not, then you need Volume 1 of the *Learn Math Fast System*.

DID YOU ANSWER ALL 10 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 2nd grade math.

If not, then you need Volume 1 of the $\it Learn\ Math\ Fast\ System.$



11. 9 x 7 = **63**

1633.0833

10,759,863,422.

15. Which number is in the Ten Thousands column?6Which number is in the One Hundred Millions column?7Which column has a 0 in it?The Billions

DID YOU ANSWER ALL 15 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 3rd grade math.

If not, then you need Volume 1 of the *Learn Math Fast System*.



16.
$$\frac{2}{3} - \frac{2}{6} = \frac{2}{6} = \frac{1}{3}$$

17.
$$\frac{4}{7} \div \frac{3}{4} = \frac{16}{21}$$

16.
$$\frac{2}{3} - \frac{2}{6} = \frac{2}{6} = \frac{1}{3}$$
 17. $\frac{4}{7} \div \frac{3}{4} = \frac{16}{21}$ 18. $3\frac{9}{24} + 2\frac{8}{12} = 5\frac{25}{24} = 6\frac{1}{24}$

19.
$$6\frac{1}{3} \times 2\frac{1}{2} = \frac{19}{3} \times \frac{5}{2} = \frac{95}{6} = 15\frac{5}{6}$$

How much is 20% of 870? 174 20.

DID YOU ANSWER ALL 20 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 4th grade math. If not, then you need Volume 2 of the Learn Math Fast System.

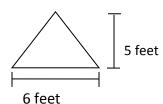
21. Write 38% as a decimal number. .38

22. Write 45 cents as a fraction.
$$\frac{45}{100} = \frac{9}{20}$$

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

24.
$$-\frac{6}{8} \div 3 = -\frac{6}{8} \times \frac{1}{3} = -\frac{6}{24} = -\frac{1}{4}$$

What is the area of the triangle below? 25. 15 square feet



DID YOU ANSWER ALL 25 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 5th grade math.

If not, then you need Volume 2 of the Learn Math Fast System.

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26.
$$\frac{6}{36} = \frac{x}{12}$$
 $36x = 72$ $\frac{36x}{36} = \frac{72}{36}$

$$\frac{36x}{36} = \frac{72}{36}$$

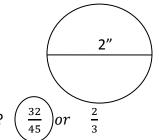
$$x = 2$$

27.
$$8^2 = 64$$

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

Circumference = 6.28"

Area = 3.14 square inches



- Circle the bigger fraction? 29.
- $5^3 + \sqrt{121} = 125 + 11 = 136$ 30.

DID YOU ANSWER ALL 30 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 6th grade math.

If not, then you need Volumes 3 & 4 of the Learn Math Fast System.

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31.
$$3x = 24$$

$$x = 8$$

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

$$x = 7$$

33.
$$3x + 9 = 30$$

$$3x = 30 - 9$$

$$3x = 21$$

$$x = 7$$

Use the proper Order of Operations to solve for x.

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

$$x = 65$$

Solve for x in terms of y.

35.
$$5 + x = y$$

$$x = y - 5$$

DID YOU ANSWER ALL 35 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 7th grade math.

If not, then you need Volume 3 of the *Learn Math Fast System*.



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

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

$$m=\frac{3}{2}$$

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.

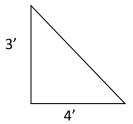
$$2 = \frac{3}{2} \cdot 3 + b$$

$$2 = \frac{9}{2} + b$$

$$2-\frac{9}{2}=b$$

$$b=-\frac{5}{2}$$

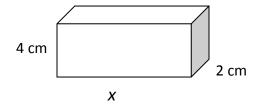
38. What is the length of the hypotenuse in the triangle below? **5 feet**





39. The cube below is 64cm³. Solve for x.





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

$$v = \frac{4}{3} \cdot 3.14 \cdot 27$$

 $v = 113.04 in^3$

DID YOU ANSWER ALL 40 OF THESE PROBLEMS CORRECTLY?

If yes, then you have passed 8th grade math and you are ready for Volume 5 of the *Learn Math Fast System*. If not, then you need to start with Volumes 3 & 4 of the *Learn Math Fast System*.

41. Solve for x below.

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

 $x = 30 - 25$
 $x = 5$

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42. Simplify the expression below.

$$\frac{\overset{1}{5}ab+\overset{1}{5}b}{\overset{1}{5}}=\frac{ab+b}{1}=ab+b$$

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

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

 $y^2 - 4y + 2y - 8$
 $y^2 - 2y - 8$

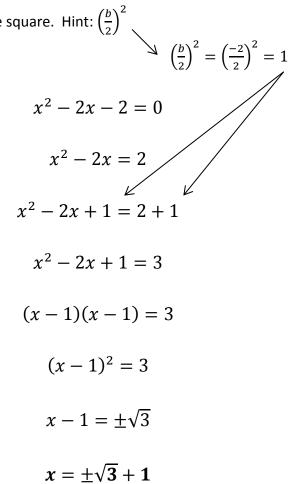
44. Factor the quadratic below.

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

$$(x + 3)(x + 5)$$



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



If you answered all 45 questions correctly, then you have completed Algebra I. You should start with Volume 6 of the Learn Math Fast System.