Learn Math Fast's PRE-ALGEBRA Review Test

1. -7 + -7 =**2**. 5 + -8 =**3**. (7) - (-3) =4. $-\frac{3}{8}+\frac{7}{24}=$ 5. -10 - 6 =6. 7 × -6 =7. $-5 \times -5 =$ **8**. 15 ÷ −3 = **9**. $-24 \div -8 =$ 10. $-\frac{2}{7} \times 2 =$ 11. $-.07 \times -.78 =$ **12**. 4.5) 3257.55 14. $\frac{\frac{1}{3}}{\frac{1}{2}} =$ 13. $\frac{3}{4}\left(-\frac{5}{8}\right) =$ $15.-\frac{4}{8} \div \frac{3}{4} =$ Solve for x. 17. 10 - x = 90**16**. 10 + x = 1318. 5x = 3019. $\frac{55}{r} = 5$ 20. $\sqrt{64} = x$ **21.** $3^2 \div 3 + 6 \times 4 = x$ Solve for x in terms of y. 23. x + 2 = y22. x - 1 = y24. 5 + x = y

25. Find the slope of a line with coordinates (2, 3) and (3, 5), using $m = \frac{y_2 - y_1}{x_2 - x_1}$.

26. Find the y-intercept of the line from problem 25 using y = mx + b.

27. If you were to graph the line from the last problem, would the line be uphill, downhill, vertical or horizontal?

28. Graph a line with coordinates (-3, 5) and (4, 2). Is the slope of that line negative, positive, zero or undefined?

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1. $-7 + -7 = -14$	2. $5 + -8 = -3$	3 . $(7) - (-3) = 10$
$4. \ -\frac{3}{8} + \frac{7}{24} = -\frac{9}{24} + \frac{7}{24}$	$\frac{1}{4} = -\frac{2}{24} - \frac{1}{12}$	5 . $-10 - 6 = -16$
6. 7 × $-6 = -42$	7. $-5 \times -5 = 25$	8 . $15 \div -3 = -5$
9. $-24 \div -8 = 3$ 723.9 12. $45.)32575.5$ <u>315</u> 107 <u>90</u> 175 <u>135</u> 405 <u>405</u> 0	10. $-\frac{2}{7} \times 2 = -\frac{4}{7}$	11. 78 $\times07$ 546 ± 000 .0546
13. $\frac{3}{4}\left(-\frac{5}{8}\right) = -\frac{15}{32}$	14. $\frac{\frac{1}{3}}{\frac{1}{2}} = \frac{1}{3} \times \frac{2}{1} = \frac{2}{3}$	$15\frac{4}{8} \div \frac{3}{4} = -\frac{4}{8} \times \frac{4}{3} = -\frac{16}{24} = -\frac{2}{3}$
Solve for x.		
16. $10 + x = 13$ -10 - 10 x = 3	$17. \ 10 - x = 90 + 10 + 10 -x = 100 x = -100$	18 . $5x = 30$ $5x \div 5 = 30 \div 5$ x = 6
19. $\frac{55}{x} = 5$ $x\left(\frac{55}{x}\right) = 5x$ $55 = 5x$ $11 = x$	$20. \ \sqrt{64} = x$ $8 = x$	21. $3^2 \div 3 + 6 \times 4 = x$ (9 ÷ 3) + 24 = x 3 + 24 = x 27 = x

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Solve for x in terms of y.

22.
$$x-1 = y$$

 $+1 + 1$
 $x = y + 1$
23. $x+2 = y$
 $-2 - 2$
 $x = y - 2$
24. $5+x = y$
 $-5 - 5$
 $x = y - 5$

25. Find the slope of a line with coordinates (2, 3) and (3, 5), using $m = \frac{y_2 - y_1}{x_2 - x_1}$. $m = \frac{5 - 3}{3 - 2} = \frac{2}{1} = 2$

26. Find the y-intercept of the line from problem 25 using y = mx + b.

$$5 = 2(3) + b$$

 $5 = 6 + b$
 $5 - 6 = b$
 $-1 = b$ The y-intercept is -1.

- 27. If you were to graph the line from the last problem, would the line be uphill, downhill, vertical or horizontal? **Uphill because the slope is positive**.
- 28. Graph a line with coordinates (-3, 5) and (4, 2). Is the slope of that line negative, positive, zero or undefined? **Negative**

