

Thanksgiving

Packet

PreAP 7th Grade

Math

Directions: You are to complete your Thanksgiving packet over the break. Your packet is due **Wednesday, November 30, 2016**. The packet covers previously taught material. This packet is a quiz grade which is **20% of your grade**. For **10 extra points** have your parents sign. Use your journal for extra help. Happy Thanksgiving!!!!!!!!!!!!!!!!!!!!!!

Parent Signature:

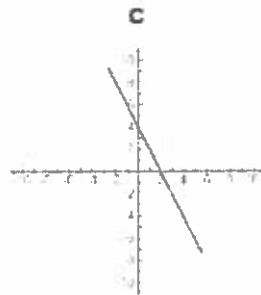
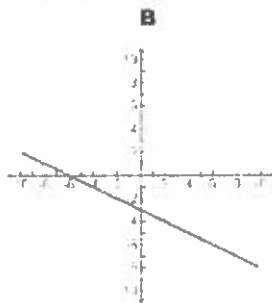
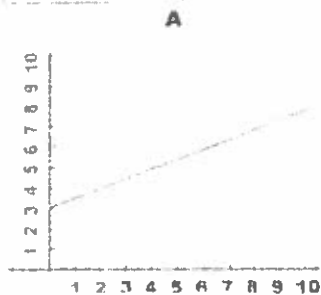
MasterMath

Graphing Linear Equations in Slope-Intercept Form

Name _____

Date _____

Match the equation with its graph:



1. $y = -1/2x - 3$

2. $y = 1/2x + 3$

3. $y + 2x = 4$

Find the slope and the y-intercept for the graph of these linear equations:

4. $y = 2x + 4$

5. $2y = 3x - 6$

6. $y = .35x + 26$

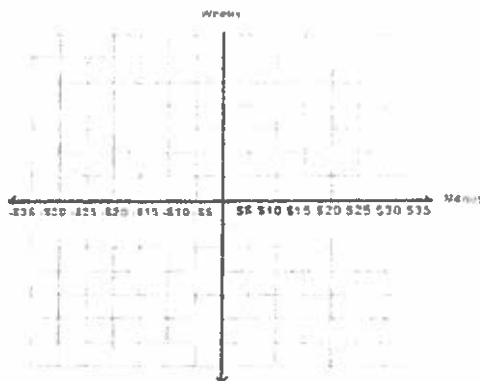
7. $x + 2y = 8$

8. $x = 2y + 3$

y	
slope	intercept

9. You owe your father \$25, and promise to save \$5 per week ("w" or "x") in the future, so you don't have to borrow more money ("M" or "y") from him. Write an equation that shows how much money you have after each week. Don't forget, you have to pay your Dad back.

10. Graph the equation you created in Questions 9.



MasterMath

Using the Pythagorean Theorem

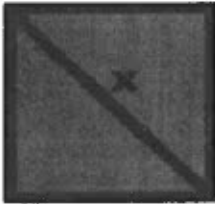
Name _____

Date _____

1. Determine the missing dimension on these right triangles

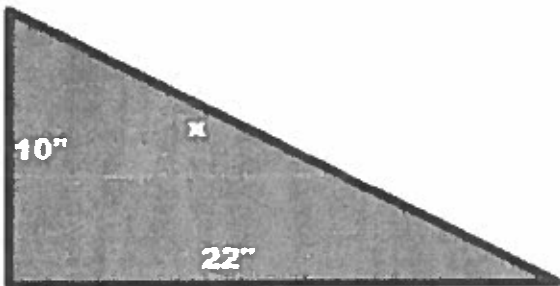
side 1	side 2	hypotenuse
4"	6"	
25 cm	10 cm	
	3'	11.4'
7 mm		12 mm
	5"	6.4"
9.5	3	

2. Find x

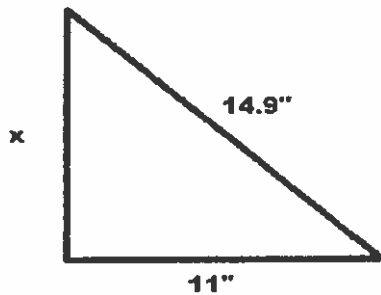


Area of Square =
16 sq ft

3. Find x



4. Find x



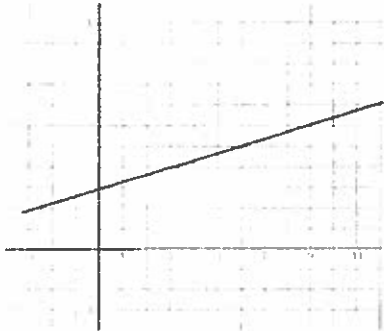
MasterMath

Name _____

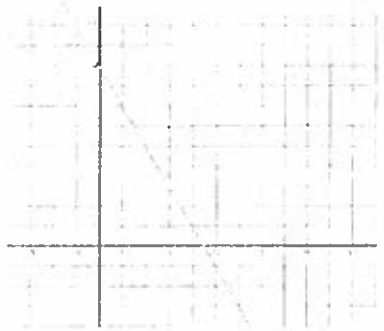
Date _____

1. The slope of a straight line is $\frac{1}{2}$. The y intercept of the line is -8. What is the equation that the line represents?

2. What equation in slope-intercept form does this line represent?

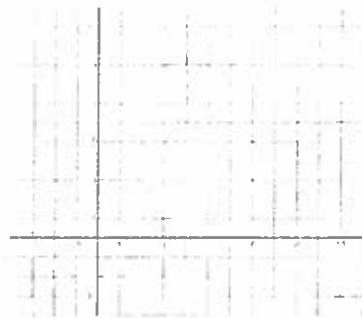


3. What equation in slope-intercept form does this line represent?



4. These two points are on a straight line: (0, 6), (8, 22). What equation is represented by the straight line?


5. Draw a line that represents this equation: $y = 3x + 2$



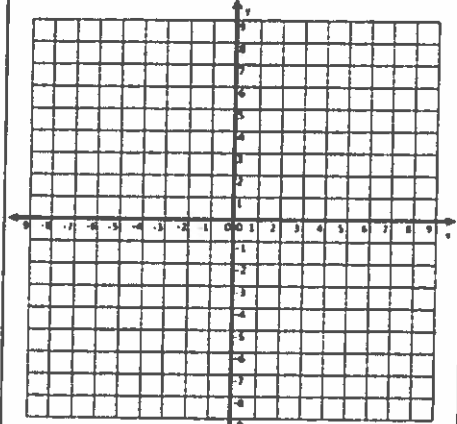
6. Find the equation that includes these points: (4, 2), (0, 12)

Integers	$(-5)(0)(-7) = \underline{\hspace{2cm}}$	$(-3)(1)(-15) = \underline{\hspace{2cm}}$	$(400)(-0.5) = \underline{\hspace{2cm}}$	+ - - - + - - - +
	$4 + (-4) = \underline{\hspace{2cm}}$	$-2 + (-3) = \underline{\hspace{2cm}}$	$4 + (-5) = \underline{\hspace{2cm}}$	SS = add DS = sub
	$5 - (-5) = \underline{\hspace{2cm}}$	$-8 - 6 = \underline{\hspace{2cm}}$	$-9 - (-2) = \underline{\hspace{2cm}}$	+ opposite

Exponents & Square Roots	$\sqrt{1} = \underline{\hspace{2cm}}$	$\sqrt{4} = \underline{\hspace{2cm}}$	$\sqrt{25} = \underline{\hspace{2cm}}$	$\sqrt{49} = \underline{\hspace{2cm}}$
	$\sqrt{64} = \underline{\hspace{2cm}}$	$\sqrt{100} = \underline{\hspace{2cm}}$	$\sqrt{144} = \underline{\hspace{2cm}}$	$\sqrt{121} = \underline{\hspace{2cm}}$
	$\sqrt{16} = \underline{\hspace{2cm}}$	$\sqrt{9} = \underline{\hspace{2cm}}$	$\sqrt{81} = \underline{\hspace{2cm}}$	$\sqrt{36} = \underline{\hspace{2cm}}$

Absolute Value	$ 46 =$	Number Lines	Place the numbers on the number line. $-\frac{2}{3}, \sqrt{2}, 1\frac{1}{3}, -\frac{1}{3} , \frac{1}{2}$ 
	$ -46 =$		
	$ -6 + 6 =$		

Computation	84×0.25	$5.44 \div 3.4$	$\frac{1}{4} + \frac{3}{10}$	$\frac{6}{7} \times \frac{21}{24}$

Coordinate Grid		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">x</th> <th style="width:40%;">Process</th> <th style="width:50%;">y</th> </tr> </thead> <tbody> <tr> <td></td> <td>y =</td> <td></td> </tr> <tr> <td>0</td> <td>y =</td> <td></td> </tr> <tr> <td>1</td> <td>y =</td> <td></td> </tr> <tr> <td>2</td> <td>y =</td> <td></td> </tr> <tr> <td>3</td> <td>y =</td> <td></td> </tr> </tbody> </table>	x	Process	y		y =		0	y =		1	y =		2	y =		3	y =		Find the value for y when you use the values from the table for x. Fill in the table and graph the points. Connect the points to make the line for the equation. $y = -3x + 4$
	x	Process	y																		
	y =																				
0	y =																				
1	y =																				
2	y =																				
3	y =																				

Vocabulary	WORD BANK Order of Operations Variable Sum Base Integer Expression Product Difference Power Exponent Quotient Transformations Dilation Reflection Translation Integers Whole Number	Any natural number and "0" _____ Natural numbers, their opposites, and "0" _____ A number or expression using a base and an exponent _____ The answer when you add _____
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FDP	$-\frac{3}{4} = \underline{\hspace{1cm}} = 75\%$; $-\frac{4}{5} = \underline{\hspace{1cm}} = 80\%$; $\frac{2}{3} = \underline{\hspace{1cm}} = 66.\bar{6}\%$; $-\frac{1}{4} = 0.25 = \underline{\hspace{1cm}}$; $\frac{1}{2} = 0.5 = \underline{\hspace{1cm}}$;
	$\frac{1}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$; $\frac{2}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$; $\frac{3}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$; $\frac{5}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$; $\frac{7}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$;