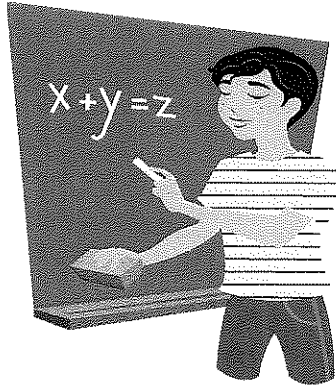


NAME _____

DATE: ___/___/___ PERIOD: _____



Summer Reading Assignment for Integrated Topics

Before the *first day of class*, students must complete all problems enclosed in this packet. This is a review of what you previously learned in Algebra 1. If you have trouble, try getting help from the internet at www.purplemath.com, www.integratedtopics.weebly.com, www.khanacademy.com or from a peer/mentor.

The Algebra 2 course traditionally serves as the foundation course for all advance studies in mathematics. This is a required course for the College Completer, and helps to prepare students for the SAT. The Integrated Topics course serves as a prep course that reinforces specific Algebra 1 content such as linear and quadratic equations in depth in order for students to be successful in Algebra 2.

Both Algebra 2 and Integrated Topics teachers at Arundel High School look forward to working with you in class. Completing this packet will prepare you for the first days of class, and will be your first 21st century skill grade for first quarter.

**All work must be shown in order to
receive full credit for the assignment.**

"What do you call a person who reads while sunbathing?"

Solve the following equations. Cross out the letter that matches with your answer. The remaining letters will allow you to figure out the joke.

1. $2x - 1 = 5$

2. $3x + 4 = 19$

3. $-5x - 3 = 17$

4. $6 + 4x = -6$

5. $-x + 5 = 7$

6. $-4x + 3 = -13$

7. $-46 = 7x - 4$

8. $8 - x = -5$

9. $11x + 6 = 6$

10. $17 = -2x - 5$

11. $9x - 37 = 17$

S 6	W 1	E 7	A 4	B -4	L 15
L -8	O -6	T 3	V 13	I -3	E -11
C -2	R -7	N 5	E 10	Y 0	D 21

"Why couldn't the bicycle stand on its own?"

Solve the following equations. The answer to each problem will match a letter that will allow you to figure out the joke.

1. $3x + 4 = 2x + 27$

I: 2

2. $10x - 6 = 6x + 14$

W: -2

3. $9 + x = 5x - 3$

U: 7

4. $-x + 2 = x - 14$

O: 5

5. $66 + x = 7x$

R: 11

6. $25 + 6x = 21 + 4x$

A: 23

7. $-9x + 11 = 20 - 6x$

T: 4

8. $22x - 15 = 7x + 15$

L: -6

9. $23x - 40 = 13x$

W: -10

D: -3

E: 3

Y: 9

S: 8

N: 0

8 9 6 1 4 9 6 2 9 8 5 3 7

"What do you call a horse that can't lose a race?"

Simplify the following expressions. Cross out the letter that matches your answer.
The remaining letters will allow you to figure out the joke.

- $2(5x - 1) + 3x$
- $6x + 3(2x + 7)$
- $7 - (3x - 4)$
- $10 - 4(6 - x) + 5x$
- $6(x - 4) + 10(2x + 3)$
- $-3(6x - 5) + 2x - (-11x + 8)$
- $2(8x - 13) - 8(2x - 4) + 6$
- $5(-2x + 7) - (3x + 22)$
- $4(9x - 1) + 5(3x + 7) - 6(x - 8)$

A $12x + 21$	S $10x - 7$	T $-13x + 13$	H $4x - 7$
E $9x - 20$	C $26x + 6$	U $13x - 2$	R $11x + 1$
L 12	B $24x - 8$	E $4x - 8$	M $9x - 14$
O $-3x + 11$	T $37x - 2$	N $45x + 79$	W $-5x + 7$



Write Your Own Problem

Now it is time for you to apply what you have practiced in this packet. Create and solve an **original** word problem that involves solving for an unknown variable.

For example,

Jade spent \$42 for shoes. This was \$14 less than twice what she spent for a blouse. How much was the blouse?

$$\begin{array}{r} 2x - 14 = 42 \\ \quad +14 \quad +14 \\ \hline 2x = 56 \\ \quad 2 \quad 2 \\ \hline x = 28 \end{array}$$

The blouse cost \$28.

From the Math page.com

All websites will be scanned for plagiarism. Please create your own word problem.