

SUMMER REVIEW PACKET FOR GEOMETRY, ENHANCED GEOMETRY, AND HONORS GEOMETRY

AFTER COMPLETING A YEAR OF ALGEBRA, THE SUCCESSFUL GEOMETRY STUDENT WILL NEED TO KNOW THE FOLLOWING CONCEPTS. THE FOLLOWING IDEAS WILL BE BRIEFLY DISCUSSED. THE REVIEW PACKET WILL BE CONSIDERED A HOMEWORK ASSIGNMENT. A QUIZ ON THE MATERIAL WILL FOLLOW.

SHOW ALL YOUR WORK!!!

A.) SOLVING EQUATIONS: Circle all final answers.

1.) $2x+5=17$

2.) $7x-10=3x+14$

3.) $3(2x-5)=21$

4.) $7x-3(4x+3)=-8x+12$

5.) $6x-(7x-10)=3x-8$

B.) USE THE VALUE OF x TO FIND ADDITIONAL ANSWERS:

6.) $AB=3x+8$, $CD=5x-10$, $AB=CD$

a.) $x=$ _____

b.) $AB=$ _____

c.) $CD=$ _____

7.) $AB=4x-14$, $BC=5x+8$, $AC=12x+18$, $AB+BC=AC$

a.) $x=$ _____

b.) $AB=$ _____

c.) $BC=$ _____

d.) $AC=$ _____

C.) SIMPLIFYING SQUARE ROOTS: The answers should not be decimal answers.

8.) $\sqrt{25}$ 9.) $\sqrt{20}$ 10.) $\sqrt{150}$ 11.) $3\sqrt{72}$ 12.) $(3\sqrt{5})^2$ 13.) $3(\sqrt{5})^2$

D.) PERIMETER AND AREA: SHOW THE FORMULA THAT WAS USED!!

14.) RECTANGLE: $b=8$ cm., $h=14$ cm.

$P=$ _____

$A=$ _____

15.) SQUARE: $s=9$ in.

$P=$ _____

$A=$ _____

16.) TRIANGLE: $b=12$ mm., $h=13$ mm.

$P=$ _____

$A=$ _____