LEARNING	ACTIVITY	SHEET
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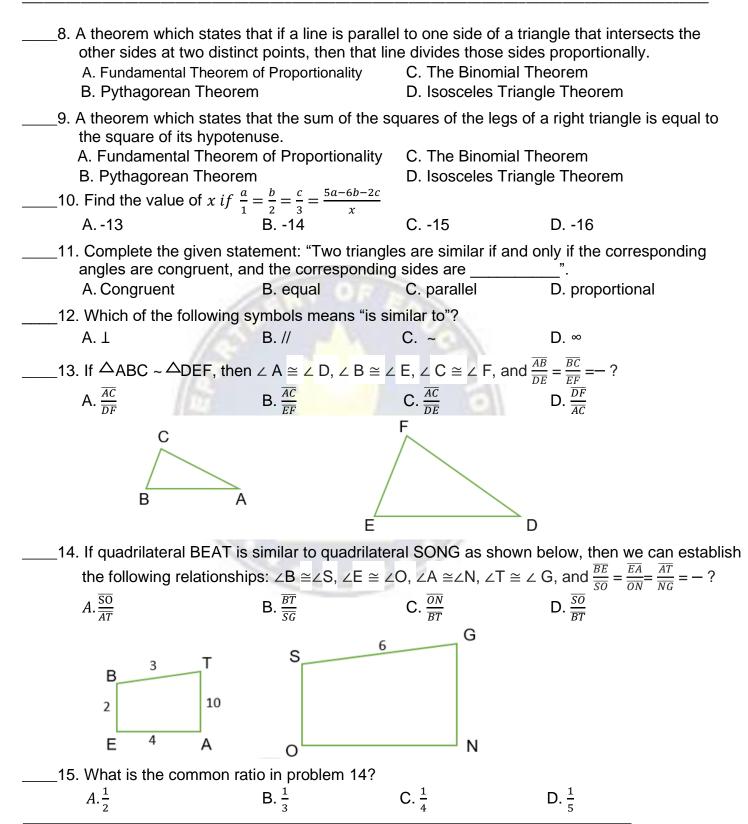
Name:		Date:	Rating/Score:
Activity 1: Choose	Me Up!		
Directions: Write the I	etter of the best answer on	the blank provided	before each number.
1. A relationship another.	o of two quantities of the sa	me kind expressed	by dividing one quantity by
A. Rate B. Ratio		C. One to One D. Proportion	e relationship
2. Which of the f	ollowing best describes the	equality of two or r	more ratios?
A. Rate		C. Proportion	
B. Ratio		D. One to One	e relationship
3. If $x: y = 4: 3$ , e	evaluate $(4x + y) : (8x + y)$	y)	
A. $\frac{-19}{35}$	B. $\frac{19}{35}$	C. $\frac{-35}{19}$	D. $\frac{35}{19}$
4. If $x: y = 6:4$ , f	ind $(2x + 2y) : 3x$ .		
A. $\frac{7}{9}$	B. $\frac{9}{7}$	C. $\frac{9}{10}$	D. $\frac{10}{9}$
A. Two triang correspon B. Two triang sides of a C. Two triang correspon	ollowing statements best d les are similar if two angles nding angles of another tria les are similar if two sides another triangle. les are similar if one angle nding angle of another trian les are similar if one side of riangle.	s of one triangle are angle. of one triangle are o of one triangle is co ngle.	congruent to the two congruent to two ongruent to
6. Solve for the r	ratio $a:b if a^2 + 3ab - 10b$	$^{2} = 0.$	
A5:1 or -2:1		C5:1 or 2:1	D. 5:1 or -2:1
7. Which of the f	ollowing statement is true?		
A. If a line pa	arallel to one side of a trian nose side equally.		er two sides then it
	arallel to one side of a trian ne triangle equally.	gle intersect the oth	ner two sides then it
	arallel to one side of a trian nose side in a ratio of 2:1	gle intersect the oth	er two sides then it
D. If a line pa	arallel to one side of a trian	gle intersect the oth	er two sides then it

divides those side proportionally.

Specific Week: Week 5 and 6

**Target Competency:** Describes a proportion (M9GE-IIIf-360, applies the fundamental theorems of proportionality to solve problems involving proportions (M9GE-IIIf- 37), illustrates similarity of figures (M9GE-IIIg-38) **Note to the Teacher:** This LAS is designed to develop the students' comprehension and understanding about the application of the

fundamental theorems of proportionality to solve problems and similarity of figures. Reference: Learners' Material, pages 356-368.



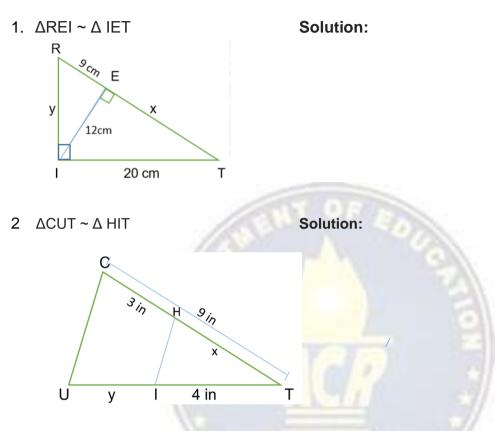
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## Activity 2: It's Showtime!

Each pair of polygons is similar. Find the values of x and y. Use the space provided on the right side for your solutions.



## Activity 3: Show More What You've Got!

Solve the following problems. Write your solution below.

1. A quadrilateral has sides 6 cm, 10 cm, 18 cm, and *a* cm. A quadrilateral similar to this has the corresponding sides b, c, 36 cm, and 48 cm. Find a, b, and c.

2. A 3" x 5" picture is to be enlarged such that its new length is five times the width of the original picture. Find the dimensions of the enlarged picture.

## ANSWER KEY:

ACTIVITY 1	ACTIVITY 2	ACTIVITY 3
1. B	1. x = 16	1. a = 24
2. C	y = 15	b = 12
3. В	2. x = 6	c = 20
4. D	y = 2	2. w = 9 in
5. A		L = 15 in
6. C		
7. D		
8. A		WT 0F
9. B	1	Nº N
10. A		
11. D	10	
12. C	12	4 9
13. A		NICE :
14. B		KUMI A
15. A		
	1	