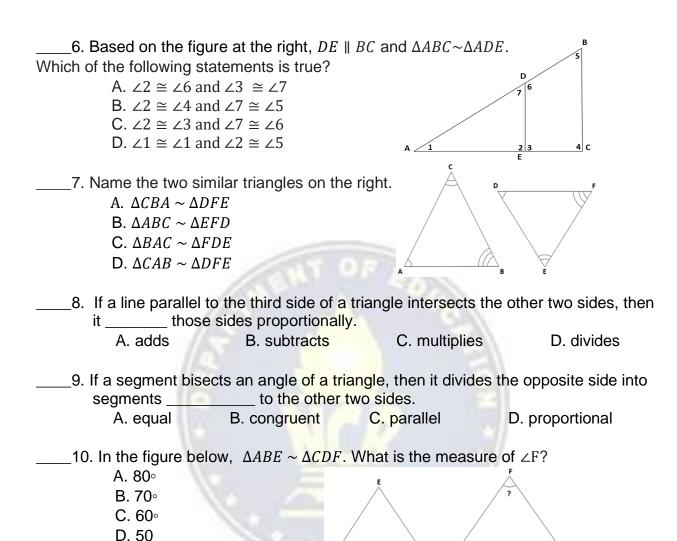
LEARNING ACTIVITY SHEET	GRADE 9 Mathematics	
Name:	Date:	Rating/Score:
Activity1: Choose Me Wisely!		
Directions: Write the letter of the best an	swer on the blank prov	vided before each number.
1. According to the AAA similarity po		
corresponding and	les with equal measu	re.
A. Four B. Three	C. Two	D. One
2. Which of the following statements	describe similar trian	igles?
<ul> <li>A. They have the same shape</li> </ul>	, but may not be the s	same size.
B. Their corresponding sides a		
C. Their corresponding angles		<del>)</del> .
D. All of these statements des	cribe similar triangle.	
2. According to the AA similarity pos	stulata two triangles o	ura aimilar if thay hava
3. According to the AA similarity pos how many corresponding angles		ile similar ii triey nave
A. Four B. Three	C. Two	D. One
A. I oui B. Tillee	O. TWO	D. One
4. In the figure, AB is parallel to CD,	BD and AC are trans	versals. What are the two
pairs of corresponding angles that		
similar?	Δ	
A. $\angle 3 \cong \angle 1$ and $\angle 4 \cong \angle 2$	^	2 B
B. $\angle 6 \cong \angle 5$ and $\angle 4 \cong \angle 2$		
C. $\angle 6 \cong \angle 5$ and $\angle 1 \cong \angle 4$	E	5
D. $\angle 6 \cong \angle 5$ and $\angle 1 \cong \angle 3$		
	3	4
	D	c
5. Are the following two triangles sin	nilar?	$\wedge$
o. Are the following two thangles sin		150°
	150°	

- A. Yes, they are similar, because they are triangles.
- B. Yes, they are similar, because they have one set of corresponding angles of equal measure.
- C. No, they are not similar.
- D. There is not enough information to tell if they are similar.

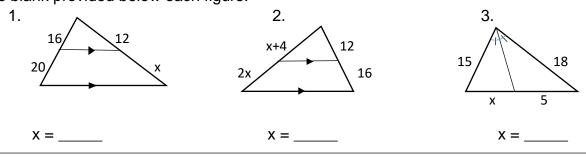
Specific Week: Week 7 and 8

**Target Competency:** Proves the conditions for similarity of triangles (M9GE-IIIg-h-39), applies the theorems to show that given triangles are similar (M9GE-IIIj-40), proves the Pythagorean theorem (M9GE-IIIj-41), and solve problems that involve triangle similarity and right triangle{M9GE-IIIJ42}.



# Activity 2: What's My Value?

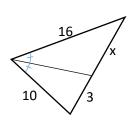
**Directions:** Use an extra sheet of pad paper to solve for x then write its value on the blank provided below each figure.



Specific Week: Week 7 and 8

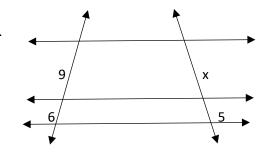
**Target Competency:** Proves the conditions for similarity of triangles (M9GE-IIIg-h-39), applies the theorems to show that given triangles are similar (M9GE-IIIj-40), proves the Pythagorean theorem (M9GE-IIIj-41), and solve problems that involve triangle similarity and right triangle{M9GE-IIIJ42}.

4.



x = \_\_\_\_

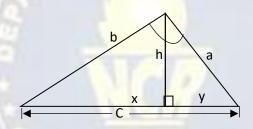
5.



x = \_\_\_\_

# **Activity 3: Intensify Your Understanding!**

**Directions:** Refer to the diagram, then find the indicated lengths. Write your answer on the blank provided after each unknown variable.



3. 
$$h = 3\sqrt{2}$$
,  $y = 3$ ,  $x =$ 

5. 
$$x = 5$$
,  $y = 2$ ,  $a =$ 

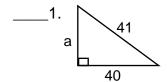
8. h = 
$$3\sqrt{5}$$
, x = 9, y = \_\_\_\_

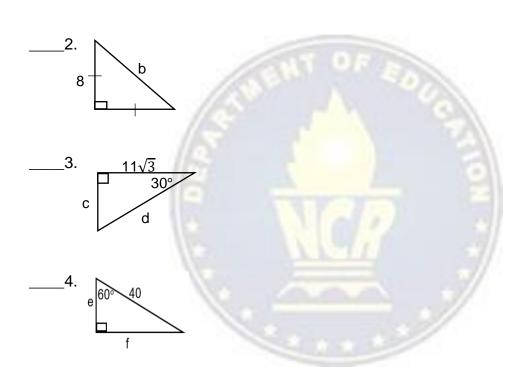
Specific Week: Week 7 and 8

**Target Competency:** Proves the conditions for similarity of triangles (M9GE-IIIg-h-39), applies the theorems to show that given triangles are similar (M9GE-IIIj-40), proves the Pythagorean theorem (M9GE-IIIj-41), and solve problems that involve triangle similarity and right triangle (M9GE-IIIJ42).

# **Activity 4: Dig Deeper!**

Find the missing length. Write your answer on the blank before each number.





Writer: **EMALYN M. BALLONADO** Validator: **KRYSTELLE R. DUMLAO** 

Specific Week: Week 7 and 8

**Target Competency:** Proves the conditions for similarity of triangles (M9GE-IIIg-h-39), applies the theorems to show that given triangles are similar (M9GE-IIIj-40), proves the Pythagorean theorem (M9GE-IIIj-41), and solve problems that involve triangle similarity and right triangle (M9GE-IIIJ42).

**Note to the Teacher:** This LAS was created by the writer in order to develop the students' comprehension and understanding about solving problems involving triangle similarities and right triangles. Reference: Learners' Material, pages 361-387.

# **ANSWER KEY:**

#### **ACTIVITY 1**

- 1. B
- 2. D
- 3. C
- 4. C
- 5. D
- 6. B
- 7. C
- 8. D
- 9. D
- 10. A

### **ACTIVITY 2**

- 1. x = 15
- 2. x = 8
- 3.  $x = \frac{25}{6}$
- 4.  $x = \frac{24}{5}$
- 5.  $x = \frac{15}{2}$

## **ACTIVITY 3**

- 1. 9
- 2. 16
- 3. 6
- 4. 64
- 5.  $\sqrt{14}$  6.  $2\sqrt{14}$
- 7. 4
- 8. 5
- 9.  $\sqrt{15}$
- 10.  $3\sqrt{5}$

## **ACTIVITY 4**

- 1.a = 9
- 2. b =  $8\sqrt{2}$
- 3. c = 11
  - d = 22
- 4. e = 20
  - $f = 20\sqrt{3}$

Specific Week: Week 7 and 8

**Target Competency:** Proves the conditions for similarity of triangles (M9GE-IIIg-h-39), applies the theorems to show that given triangles are similar (M9GE-IIIj-40), proves the Pythagorean theorem (M9GE-IIIj-41), and solve problems that involve triangle similarity and right triangle{M9GE-IIIJ42}.