## Math Virtual Learning

## Math 7/Pre-Algebra

Complementary and Supplementary Angles April 15,2020

Grade 7/Complementary and Supplementary Angles Lesson: April 15, 2020

## Objective/Learning Target:

Students will solve problems involving complementary and supplementary angles.

## Let's Get Started:

Click on the Link: Complementary and Supplementary Angles

## Warm-Up

On your paper, sort the following angles into the correct location based on the size of the angle.
(1.)

(2.)

4.



## Warm-Up - Answer Key


(4.)

(9.) $87^{\circ}$
(10.) $132^{\circ}$

| Acute Angle (smaller than $90^{\circ}$ ) |  | Right Angle <br> (EXACTLY $90^{\circ}$ - a square corner) | Obtuse Angle (bigger than $90^{\circ}$ ) | Straight Angle (EXACTLY $180^{\circ}$ - a straight line) |
| :---: | :---: | :---: | :---: | :---: |
| \#1 | \#4 | \#2 | \#3 | \#6 |
| \#5 | \#8 |  | \#7 |  |
| \#9 |  |  | \#10 |  |

## Practice

Answer the questions on a piece of paper.

The two angles are complementary.
Find the complement of the given angle.

The two angles are supplementary.
Find the supplement of the given angle.

$\angle A B D=$ $\qquad$
$\angle R P Q=$ $\qquad$

## Practice Answers

The two angles are complementary.
Find the complement of the given angle.

The two angles are supplementary.
Find the supplement of the given angle.

$59^{\circ}$
$\angle R P Q=$ $\qquad$

$$
x+31^{\circ}=90^{\circ}
$$

$$
\text { OR } \quad 90^{\circ}-31^{\circ}=59^{\circ}
$$



$$
x+17^{\circ}=180^{\circ}
$$

$$
\text { OR } \quad 180^{\circ}-17^{\circ}=163^{\circ}
$$

## Additional Practice

- Click on the Link:

IXL - Find the measure of the missing angle

- Find the measures of each angle on your own paper then type your answer in the box provided.
- Remember that supplementary angles are equal to $90^{\circ}$ and complementary angles are equal to $180^{\circ}$.


## Practice:

c.


In practice $\mathrm{d}, \mathrm{e}$, and f , the two angles are supplementary. Find the supplement of the given angle.

$\angle M N P=$ $\qquad$
e.

$\angle T R S=$ $\qquad$
f.

$\angle X V W=$ $\qquad$

## Practice Answer Key:.

In practice $\mathrm{a}, \mathrm{b}$, and c , the two angles are complementary. Find the complement of the given angle.
a.


$\qquad$
$\angle H F G=$
$67^{\circ}$
c.

$$
x+82^{\circ}=90^{\circ}
$$

In practice d , e, and f , the two angles are supplementary. Find the supplement of the given angle.
d.

f.


## Additional Links

- Click On the Link:

Mathgames - Complementary and Supplementary Angles

- Answer the questions that follow about complementary and supplementary angles. You may want your calculator.


## Additional Links

- Click On the Link:

Complementary and Supplementary Angles - Quizizz

- Choose either PLAY or FLASHCARDS
- Work the problems on your own paper and then choose your answer. You may want your calculator.


