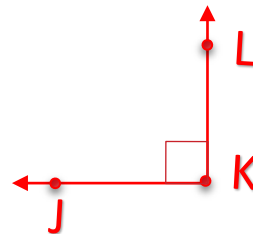
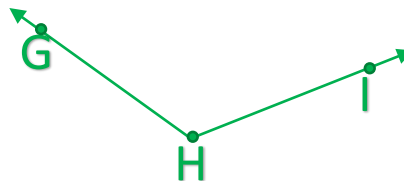
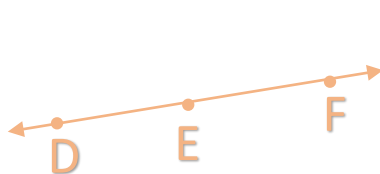
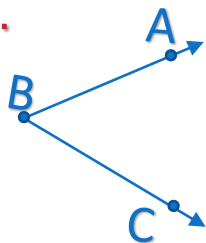


Angle Relationships

Warmup

1.

Identify and classify each angle



Solve and Check

2. $z + 14 = 90$

3. $x - 30 = 100$

- I. Complementary Angles
- II. Supplementary Angles
- III. Find Missing Angle Measures

Homeschool



Honor Roll

Learn ~ Persevere ~ Succeed

Pre-Algebra and Geometry I

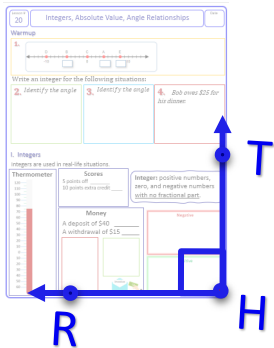
Wendy Harper

www.HsHonorRoll.com

I. Complementary Angles

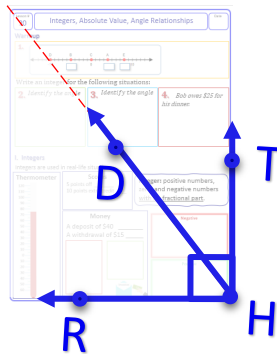
Complementary Angles:

Two angles are complementary if the sum of their measures equals 90°



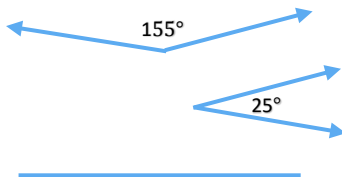
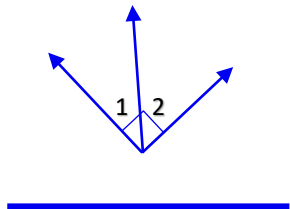
1. Look at the corner of your notes page. It is a right angle
 $\angle RHT$ is a right angle

2. Fold the paper in half diagonally.



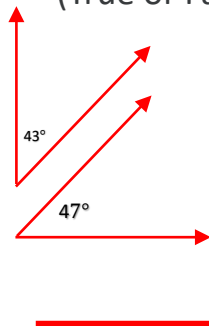
3. The crease in the paper divided the right angle into two angles.
The sum of these two angles = 90°

Determine if each pair of angles is complementary



4. Two angles are complementary angle if the _____ of the angles equals _____ degrees.

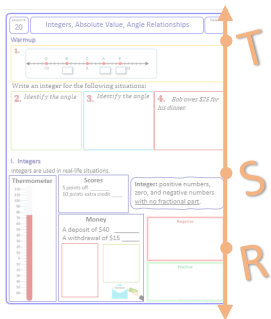
5. The pair of angles is complementary. (True or False)



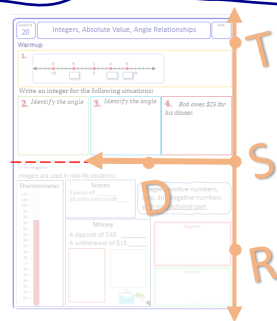
I. Supplementary Angles

Supplementary Angles:

Two angles are supplementary if the sum of their measures equals 180°



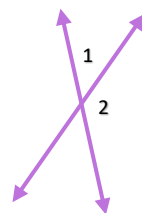
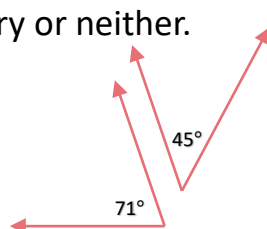
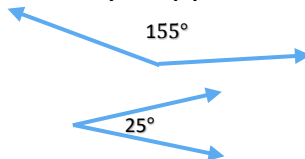
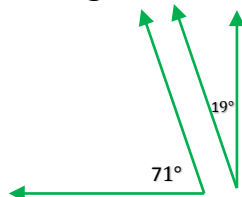
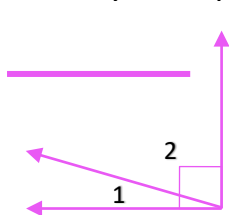
2. Fold the paper in half by bringing the bottom of the page to the top of the page.



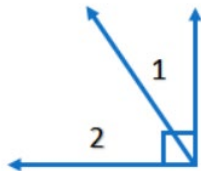
1. Look at the side of your notes page. It is a straight angle
 $\angle RST$ is a straight angle

3. The crease in the paper divided the right angle into two angles.
The sum of these two angles = 180°

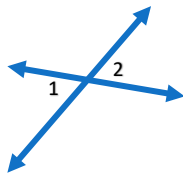
Classify each pair of angles as complementary, supplementary or neither.



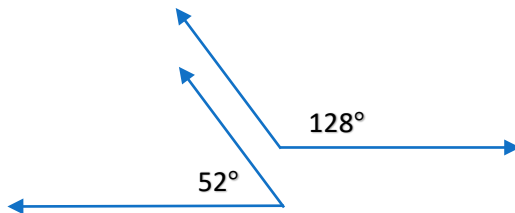
6. Classify each pair of angles as complementary, supplementary or neither. (Circle the answer)



7. Classify each pair of angles as complementary, supplementary or neither. (Circle the answer)

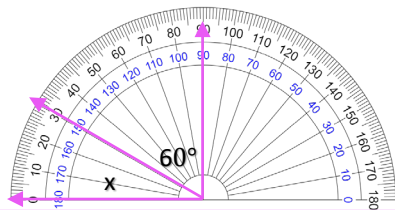
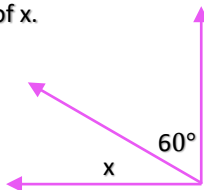


8. Classify each pair of angles as complementary, supplementary or neither. (Circle the answer)

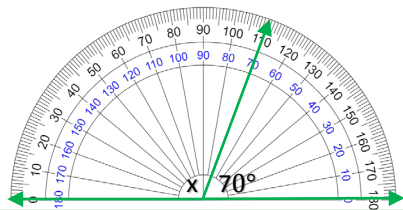
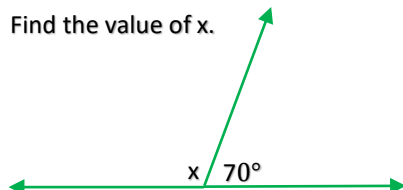


III. Find Missing Angle Measures

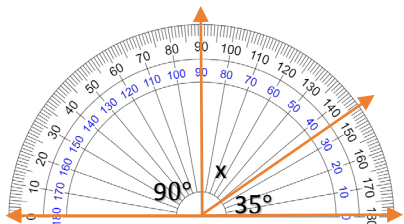
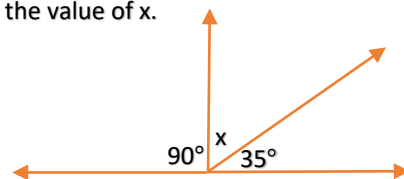
Find the value of x .



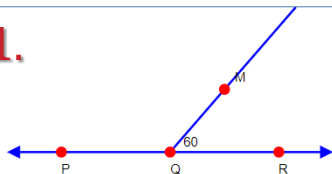
Find the value of x .



Find the value of x .



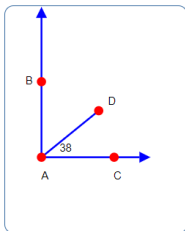
11.



Find the measure of $\angle PQM$,
given $\angle MQR = 60^\circ$.

12.

Find the measure of $\angle BAD$,
given $\angle DAC = 38^\circ$.



13.

Two angles are supplementary.
One angle = 81° . What is the measure
of the other angle?

The sum of the two angles measures _____ $^\circ$.

The angles measure 81° and _____ $^\circ$.

14.

Two angles are complementary.
One angle = 36° . What is the measure
of the other angle?

The angles measure 36° and _____ $^\circ$.

15. Draw the intersecting lines shown on the computer.

- A. What is the relationship between $\angle AED$ and $\angle AEB$? _____
- B. What is the measure of $\angle AEB$? _____ $^\circ$
- C. What is the relationship between $\angle AED$ and $\angle DEC$? _____
- D. What is the measure of $\angle DEC$? _____ $^\circ$
- E. What is the relationship between $\angle AEB$ and $\angle DEC$? _____