

7th Grade
June 1, 2021

Today we will:

- Take in-class notes on lines and angles
- Work on HW

HOMEWORK:

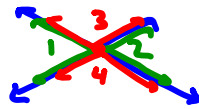
Skills WS

Special Lines and Angles, June 1



VERTICAL ANGLES
Opposite angles; they are congruent

← same measure



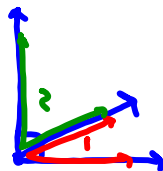
$\angle 1$ and $\angle 2$
 $\angle 3$ and $\angle 4$

ADJACENT ANGLES
Share a side; common vertex



$\angle 1$ and $\angle 2$ are adjacent

COMPLEMENTARY ANGLES
Sum of the measures = 90 degrees



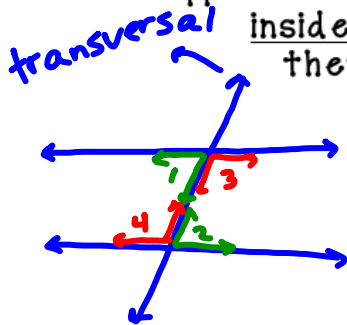
$\angle 1$ and $\angle 2$ are complementary.
So $m\angle 1 + m\angle 2 = 90^\circ$

SUPPLEMENTARY ANGLES
Sum of the measures = 180 degrees



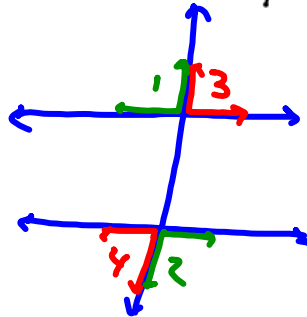
$\angle 1$ and $\angle 2$ are supplementary
 $m\angle 1 + m\angle 2 = 180^\circ$

ALTERNATE INTERIOR ANGLES
 Opposite sides of transversal and inside the parallel lines;
 they are congruent



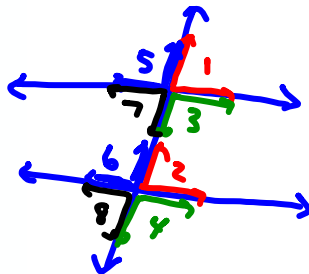
$$\begin{array}{l} \angle 1 \text{ and } \angle 2 \\ \underline{m\angle 1 = m\angle 2} \\ \angle 3 \text{ and } \angle 4 \\ m\angle 3 = m\angle 4 \end{array}$$

ALTERNATE EXTERIOR ANGLES
 Opposite sides of transversal and outside the parallel lines;
 they are congruent



$$\begin{array}{l} \angle 1 \text{ and } \angle 2 \\ \underline{m\angle 1 = m\angle 2} \\ \angle 3 \text{ and } \angle 4 \\ m\angle 3 = m\angle 4 \end{array}$$

CORRESPONDING ANGLES
 Located in the same place relative to the parallel lines and transversal; they are congruent

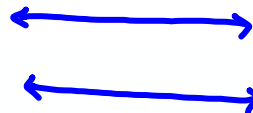
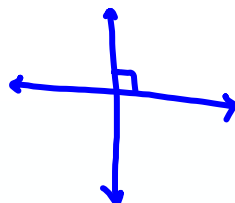


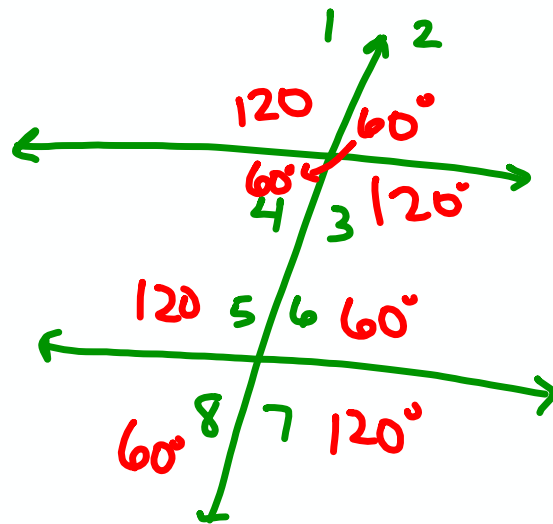
$$\begin{array}{l} \angle 1 \text{ and } \angle 2 \\ \angle 3 \text{ and } \angle 4 \\ \angle 5 \text{ and } \angle 6 \\ \angle 7 \text{ and } \angle 8 \end{array}$$

SPECIAL PAIRS OF LINES

Perpendicular lines:
 form a right angle

Parallel lines:
 never intersect







Complete and put into binder.

Name _____

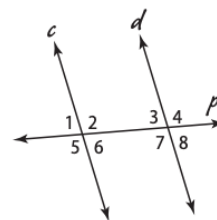
Skills Practice WS, Ch11 Lesson 1, Due June 2

Lesson 1 Skills Practice

Angle and Line Relationships

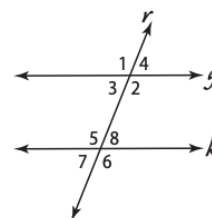
In the figure at the right, $c \parallel d$ and p is a transversal. If $m\angle 5 = 110^\circ$, find the measure of each angle.

- | | |
|---------------|---------------|
| 1. $\angle 6$ | 2. $\angle 8$ |
| 3. $\angle 2$ | 4. $\angle 4$ |

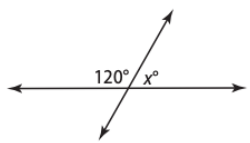
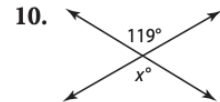
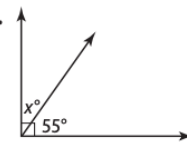
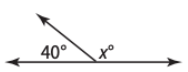
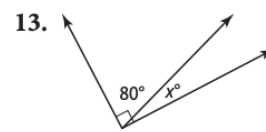
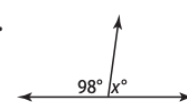
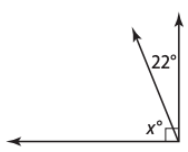
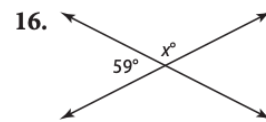

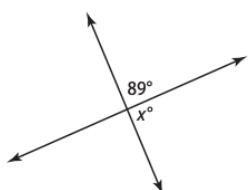
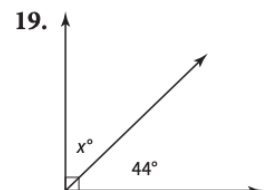
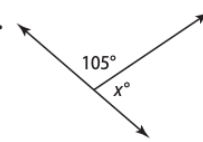


In the figure at the right, $g \parallel k$ and r is a transversal. If $m\angle 7 = 60^\circ$, find the measure of each angle.

- | | |
|---------------|---------------|
| 5. $\angle 4$ | 6. $\angle 6$ |
| 7. $\angle 5$ | 8. $\angle 3$ |



Classify the pairs of angles shown. Then find the value of x in each figure.

- | | | |
|--|--|--|
| <p>9. </p> | <p>10. </p> | <p>11. </p> |
| <p>12. </p> | <p>13. </p> | <p>14. </p> |
| <p>15. </p> | <p>16. </p> | <p>17. </p> |
| <p>18. </p> | <p>19. </p> | <p>20. </p> |