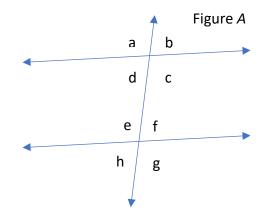
Parallel Lines and Transversals

Use Figure A for #1-6. Identify the following pairs of angles with their correct description from the word bank.

Corresponding Angles Alternate Interior Angles Vertical Angles

Consecutive Interior Angles Alternate Exterior Angles Linear Pair

- 1) $\angle a \& \angle g$
- 4) $\angle d \& \angle h$
- 2) $\angle d \& \angle f$
- 5) $\angle a \& \angle d$
- 3) $\angle e \& \angle g$
- 6) $\angle c \& \angle f$

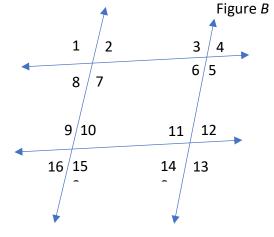


Use Figure *B* for #7-12. Identify the following pairs of angles with their correct description from the word bank.

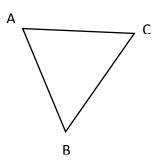
Corresponding Angles Alternate Interior Angles Vertical Angles

Consecutive Interior Angles Alternate Exterior Angles Linear Pair

- **7)** ∠12 & ∠16
- **10)** ∠**9** & ∠**15**
- **8)** ∠**1** & ∠**9**
- **11)** ∠**14** & ∠**15**
- 9) ∠5 & ∠6
- **12)** ∠**3** & ∠**7**



- 13) If $\overline{AC} \cong \overline{BC}$, identify the vertex angle and the base angles.
 - a. Vertex angle
- b. Base Angles:



- For #14-15, use Figure *C*.
 - 14) If \triangle GHI is an isosceles triangle with \angle H as the vertex angle, find x.

 $\begin{array}{c|c}
 & H & \text{Figure } C \\
\hline
 & 5x - 11 & 2x + 13 \\
\hline
 & G & I
\end{array}$

15) Find the perimeter of ΔGHI .

Parallel Lines and Transversals (Key)

Use Figure A for #1-6. Identify the following pairs of angles with their correct description from the word bank.

Corresponding Angles	Consecutive Interior Angles
Alternate Interior Angles	Alternate Exterior Angles
Vertical Angles	Linear Pair
1) $\angle a \& \angle g$ alternate exterior	4) $\angle d \& \angle h$ corresponding



2)
$$\angle d \& \angle f$$
 alternate interior

5)
$$\angle a \& \angle d$$
 linear pair

3)
$$\angle e \& \angle g$$
 vertical angles

6)
$$\angle c \& \angle f$$
 consecutive interior

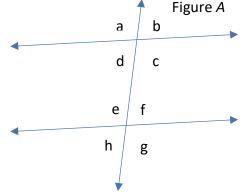
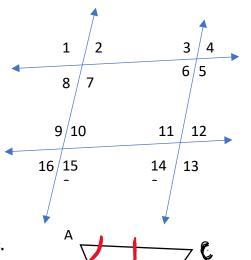


Figure B

Use Figure B for #7-12. Identify the following pairs of angles with their correct description from the word bank.

Corresponding Angles	Consecutive Interior Angles
Alternate Interior Angles	Alternate Exterior Angles
Vertical Angles	Linear Pair

- 7) $\angle 12 \& \angle 16$ alternate exterior 10) $\angle 9 \& \angle 15$
 - vertical angles
- **8)** ∠**1** & ∠**9** corresponding
- 11) $\angle 14 \& \angle 15$ consectuive interior
- 9) ∠5 & ∠6 linear pair
- **12)** ∠**3** & ∠**7**
- alternate interior

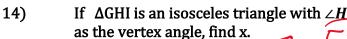


- If $\overline{AC} \cong \overline{BC}$, identify the vertex angle and the base angles. 13)
 - a. Vertex angle
- b. Base Angles:

∠**C**

 $\angle A \& \angle B$

For #14-15, use Figure *C*.



15) Find the perimeter of ΔGHI .

