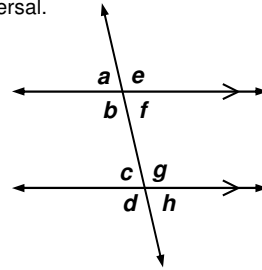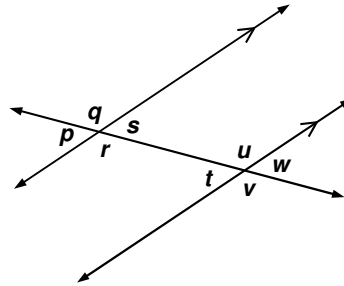# Using Geometry Vocabulary: Classwork

1. The diagram on the right shows two parallel lines intersected by a transversal.

    a. ∠*g* and _____ are vertical angles.

    b. ∠*h* and _____ are alternate exterior angles.

    c. ∠*b* and _____ are corresponding angles.

    d. ∠*f* and _____ are alternate interior angles.

    e. ∠*g* and _____ are corresponding angles.

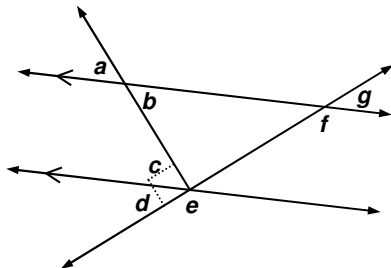   **f.** Suppose $m\angle f = 65°$. Find the measures of all the other angles.

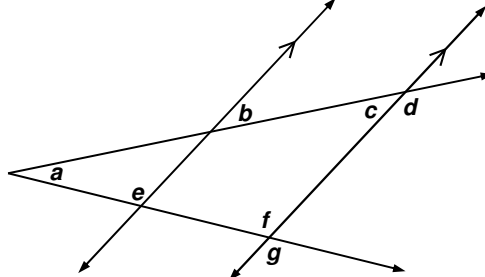**2.** The diagram on the right shows two parallel lines intersected by a transversal.

    a. ∠*p* and ∠*t* are…

    b. ∠*r* and ∠*u* are…

    c. ∠*t* and ∠*w* are…

    d. ∠*q* and ∠*v* are…

    e. ∠*q* and ∠*s* are…

    f. Suppose $m\angle r = 122°$. Find the measures of all the other angles.

3. Find the missing angle measures if $m\angle a = 53°$.
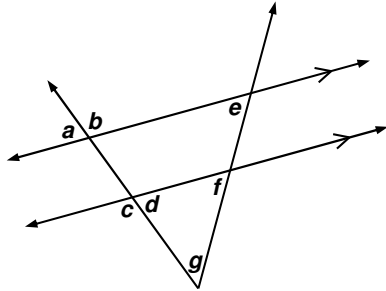
4. Find the missing angle measures if $m\angle a = 28°$ and $m\angle c = 34°$.

5. $m\angle a$ 72° and $m\angle e = 55°$
Complete the table to show how you know each angle's measure.

Statement	Reason
$m\angle b = 108°$	$\angle a$ and $\angle b$ are…
$m\angle c = 108°$	$\angle b$ and $\angle c$ are…
$m\angle d = 72°$	$\angle c$ and $\angle d$ are…
$m\angle f = 55°$	$\angle e$ and $\angle f$ are…
$m\angle g = 53°$	Angles in a triangle add up to…

6. $m\angle e = 105°$ and $m\angle j = 128°$
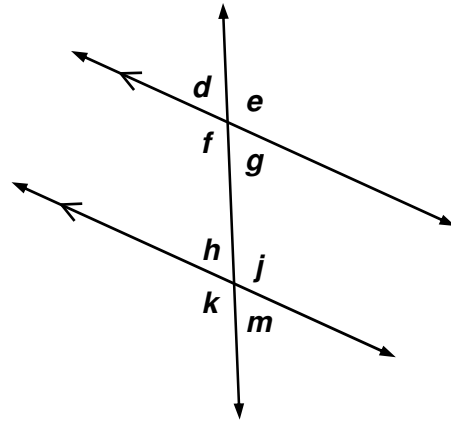Complete the table to show each angle's measure and how you know.

Statement	Reason
$m\angle h = 52°$	$\angle h$ and $\angle j$ are…
$m\angle g = 23°$	Angles in a triangle add up to…
$m\angle f = 67°$	$\angle f$ and $\angle g$ are…
$m\angle b =$	$\angle b$ and $\angle e$ are…
$m\angle c =$	$\angle b$ and $\angle c$ are…
$m\angle d =$	$\angle d$ and $\angle f$ are…
$m\angle a =$	Angles in a triangle add up to…

Using Geometry Vocabulary: Homework

7. The diagram on the right shows two parallel lines intersected by a transversal.

    a. ∠g and ∠h are…

    b. ∠d and ∠h are…

    c. ∠e and ∠f are…

    d. ∠e and ∠k are…

    e. ∠h and ∠m are…

8. Find the unknown angle measures.