Name _____ Date _____

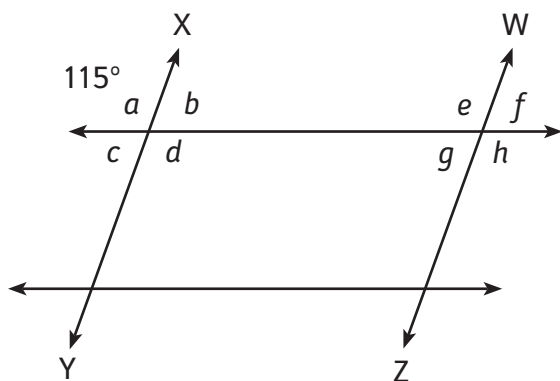### Skills Maintenance
Vertical and Corresponding Angles

Activity 1

Use the diagram to answer the questions about angles.

1. ∠a and ∠b are _____ angles.

2. If you know that the measure of ∠a is 115°, what is the measure of ∠d? _____

3. What kinds of angles are ∠a and ∠d? _____

4. Explain why the measures of ∠b and ∠f are the same.

   _____

5. What is the measure of ∠c? _____

6. What is the measure of ∠g? _____
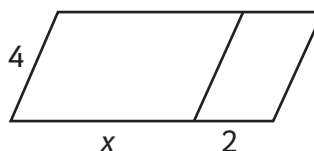
Name _____ Date _____

%÷ Apply Skills
Area Formulas and Algebra Equations

Activity 1

Find the missing measure in each shape using area formulas and the distributive property.

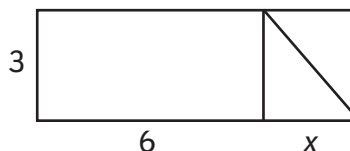1. If the area of this shape is 32 square units, what is the measure of its base? _____

   Show your work here:

   4 (parallelogram with base x and 2)

   If the base is represented with the expression $x + 2$, what is the measure of x? _____

2. If the area of this shape is 24 square units, what is the measure of its base? _____
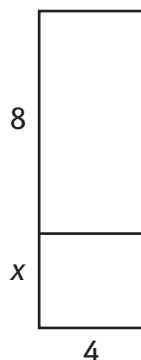
   Show your work here:

   3 (rectangle with base 6 and x)

   If the base is represented with the expression $6 + x$, what is the measure of x? _____

3. If the area of this shape is 48 square units, what is the measure of the height? _____

   Show your work here:

   8

   x

   4

   If the height is represented with the expression $8 + x$, what is the measure of x? _____