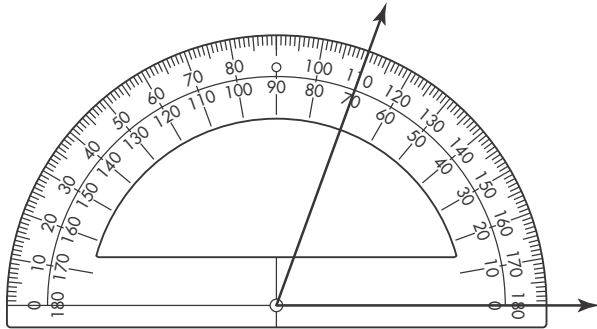
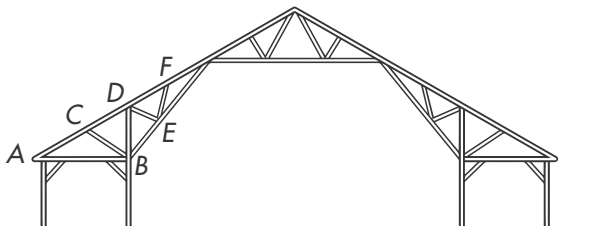


Name \_\_\_\_\_

1. What is the measure of the angle shown below? Name a type of angle that has an angle measure greater than the angle shown.



2. Josh needs to find the measures of the angles on a barn's trusses.



- A. Find the measure of  $\angle ABC$  if  $\angle ABD$  is a right angle and  $\angle CBD$  is  $60^\circ$ . Write and solve a subtraction equation.

- B. Find the measure of  $\angle BEF$  if  $\angle BED$  is  $85^\circ$  and  $\angle DEF$  is  $60^\circ$ . Write and solve an addition equation.

3. What is the measure of an angle that turns through  $\frac{1}{5}$  of a circle?

4. Choose the correct term from the box to complete each statement.

ray
line

A straight path of points that goes on and on in opposite directions is

called a  .

A   has one endpoint.

5. Draw an example of a line  $\overleftrightarrow{AB}$ . Label a point C between points A and B. Using point C, draw a ray  $\overrightarrow{CD}$ .

6.  $\angle XYZ$  is a straight angle decomposed into 2 non-overlapping angles,  $\angle XYW$  and  $\angle WYZ$ . If  $\angle WYZ$  measures  $52^\circ$ , what type of angle is  $\angle XYW$ ? What is the measure of  $\angle XYW$ ?

7.  $\angle BAD$  and  $\angle CAD$  share a ray. They form  $\angle BAC$ . The measure of  $\angle BAC$  is  $87^\circ$ . The measure of  $\angle BAD$  is  $23^\circ$ . Write and solve an equation to find the measure of  $\angle CAD$ .

8. Luke divided circles into equal parts. Match each fraction with the equal angle measure.

	$90^\circ$	$45^\circ$	$72^\circ$	$180^\circ$
$\frac{1}{2}$ of a circle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{4}$ of a circle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{5}$ of a circle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{8}$ of a circle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. Select all the true statements.

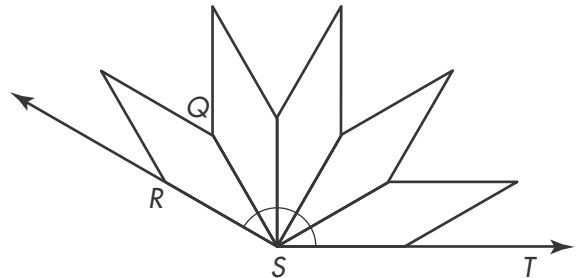
- A right angle makes a square corner.
- An acute angle is open more than a right angle.
- A straight angle is open less than an obtuse angle.
- All right angles have the same measure.
- An obtuse angle is open more than an acute angle.

10. Two streets meet at a  $45^\circ$  angle. Draw an angle to represent how the streets meet.

11. Which geometric term best describes the stars in the night sky?

- (A) Points
- (B) Rays
- (C) Line segments
- (D) Lines

12. Anna drew  $\angle RST$  using identical pattern blocks. The measure of  $\angle RST$  is  $150^\circ$ . What is the measure of  $\angle RSQ$ ? Explain.



13. Identify an acute angle, a right angle, and an obtuse angle in the figure below.

