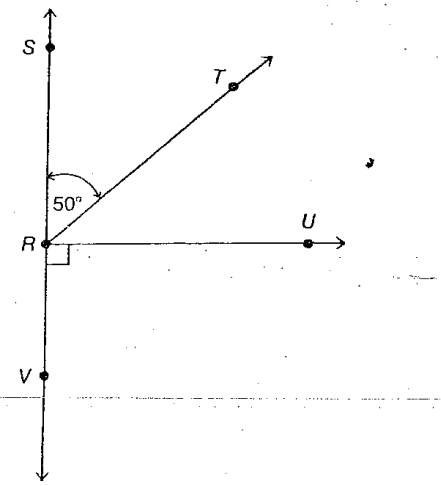
NAME _____

DATE _____

PERIOD _____

PRE-ALGEBRA – ~~Chapter 10-2~~
ANGLE MEASURES

Use the figure at the right to name the following:



1. A straight angle _____
2. An obtuse angle _____
3. Two acute angles _____
4. Two right angles _____
5. Two pairs of supplementary angles

   _____
6. A pair of complementary angles

   _____
7. The measure of $\angle VRU$ _____
8. The measure of $\angle TRU$ _____
9. The measure of $\angle TRV$ _____

Give the measure of a complement to the given angle.

10. $m\angle X = 20°$ _____
11. $m\angle A = 48°$ _____
12. $m\angle T = 72°$ _____
13. $m\angle R = 65°$ _____
14. $m\angle D = 33°$ _____
15. $m\angle P = 17°$ _____
16. $m\angle B = 81°$ _____
17. $m\angle M = 28°$ _____
18. $m\angle S = 56°$ _____

Give the measure of a supplement to the given angle.

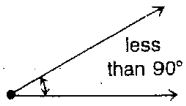
19. $m\angle Z = 10°$ _____
20. $m\angle C = 37°$ _____
21. $m\angle N = 115°$ _____
22. $m\angle E = 144°$ _____
23. $m\angle W = 59°$ _____
24. $m\angle L = 7°$ _____

Name _____ To follow text page 219

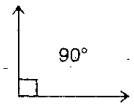
Angle Measure

Angles are named according to their measures.

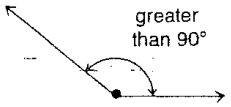
Acute angle



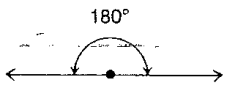
Right angle



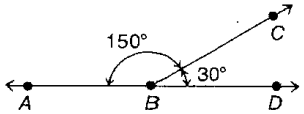
Obtuse angle



Straight angle

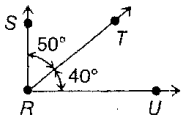


$\angle ABC$ and $\angle CBD$ are **supplementary.**



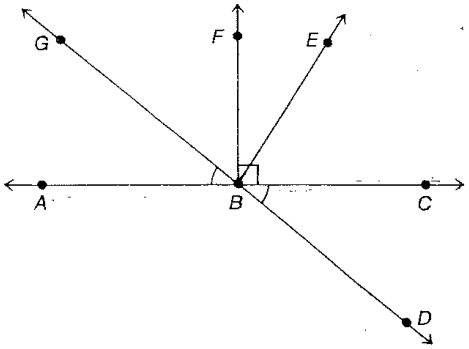
The sum of the measures is 180°.

$\angle SRT$ and $\angle TRU$ are **complementary.**



The sum of the measures is 90°.

Use the drawing at the right for exercises 1–15. Write a name for each angle. Use *acute, right, obtuse,* or *straight.*



1. $\angle ABE$ obtuse
2. $\angle CBD$ _____
3. $\angle ABC$ _____
4. $\angle ABF$ _____
5. $\angle FBE$ _____
6. $\angle GBD$ _____
7. $\angle CBG$ _____
8. Name two pairs of complementary angles.

   $\angle FBE$ and _____

   _____ and _____

9. Name two pairs of supplementary angles.

   _____ and _____

   _____ and _____

Write the measure of each angle.

10. $m\angle GBF$ = _____ 11. $m\angle GBC$ = _____ 12. $m\angle DBC$ = _____ 13. $m\angle ABD$ = _____

14. If the measure of $\angle FBE$ is 32°, what is the measure of $\angle EBC$? _____

15. If the measure of $\angle EBC$ is 58°, what is the measure of $\angle GBE$? _____