



Angles word problems

Name: _____

Date: _____

**Solve.**

- 1) Two angles are complementary and the measure of one angle is 32 less than the other. What is the measure of the smaller angle?
- 2) Two angles are complementary and the measure of one angle is 64 more than the other. What is the measure of the bigger angle?
- 3) Three complementary angles have equal measures. What is the measure of each angle?
- 4) The measure of an angle is two third the measure of its complement. What is the measure of the angle?
- 5) Two angles are supplementary. The measure of one angle is the half the measure of the other. What is the measure of the smaller angle?
- 6) Two angles are supplementary. The measure of one angle is 76 less than the other. What is the measure of the smaller angle?
- 7) Two angles are supplementary. The measure of one angle is 58 more than the other. What is the measure of the smaller angle?
- 8) Two angles are supplementary. The measure of one angle is 12 less than the other. What is the measure of the bigger angle?
- 9) The measure of an angle is half the measure of its complement. What is the measure of the angle?



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Answers



Solve.

1) Two angles are complementary and the measure of one angle is 32 less than the other. What is the measure of the smaller angle?

$$x = 29$$

2) Two angles are complementary and the measure of one angle is 64 more than the other. What is the measure of the bigger angle?

$$x = 77$$

3) Three complementary angles have equal measures. What is the measure of each angle?

$$x = 30$$

4) The measure of an angle is two third the measure of its complement. What is the measure of the angle?

$$x = 36$$

5) Two angles are supplementary. The measure of one angle is the half the measure of the other. What is the measure of the smaller angle?

$$x = 60$$

6) Two angles are supplementary. The measure of one angle is 76 less than the other. What is the measure of the smaller angle?

$$x = 52$$

7) Two angles are supplementary. The measure of one angle is 58 more than the other. What is the measure of the smaller angle?

$$x = 61$$

8) Two angles are supplementary. The measure of one angle is 12 less than the other. What is the measure of the bigger angle?

$$x = 96$$

9) The measure of an angle is half the measure of its complement. What is the measure of the angle?

$$x = 40$$



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