

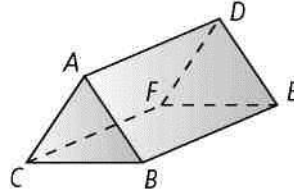
Geometry: Chapter 1A Review

Lesson 1-2

Write *true* or *false* and explain.

7. A, D, F are coplanar.

8. \overleftrightarrow{AC} and \overleftrightarrow{FE} are coplanar.



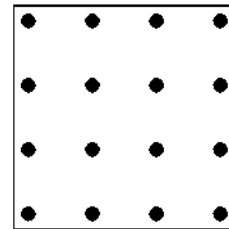
9. A, B, E are coplanar.

10. D, A, B, E are coplanar.

11. A and C are collinear.

12. D, E, and B are collinear.

13. How many sets of four collinear points are there in a 4-by-4 geoboard as pictured at the right?



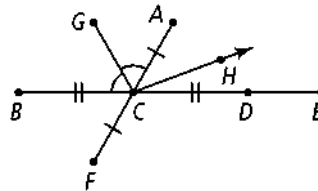
14. \overline{AB} and \overline{CD} do not intersect but \overleftrightarrow{DC} intersects \overline{AB} in one point. Make a sketch that shows this.

Lessons 1-3 and 1-4

Use the figure at the right for Exercises 15–20.

15. If $BC = 12$ and $CE = 15$, then $BE = \square$.

16. \square is the angle bisector of \square .



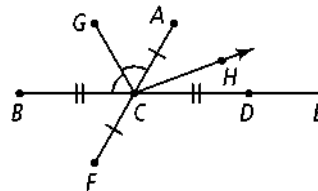
17. Algebra $BC = 3x + 2$ and $CD = 5x - 10$. Solve for x .

Name _____

Period _____

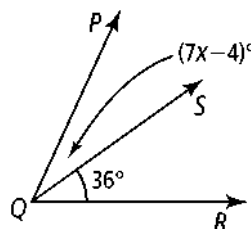
18. Algebra If $AC = 5x - 16$ and $CF = 2x - 4$, then $AF =$

19. $m\angle BCG = 60$, $m\angle GCA =$, and $m\angle BCA =$.



20. $m\angle ACD = 60$ and $m\angle DCH = 20$. Find $m\angle HCA$.

21. Algebra In the figure at the right, $m\angle PQR = 4x + 47$. Find $m\angle PQS$.



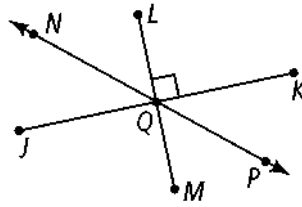
22. Algebra Points A , B , and C are collinear with B between A and C . $AB = 4x - 1$, $BC = 2x + 1$, and $AC = 8x - 4$. Find AB , BC , and AC .

Lesson 1-5

Name the angle or angles in the diagram described by each of the following.

23. supplementary to $\angle NQK$

24. vertical to $\angle PQM$



25. congruent to $\angle NQJ$

26. adjacent and congruent to $\angle JQM$

27. complimentary to $\angle KQP$

28. $\angle XYZ$ and $\angle XYW$ are complementary angles. $m\angle XYZ = 3x + 9$ and $m\angle XYW = 5x + 9$. What are $m\angle XYZ$ and $m\angle XYW$?

29. $\angle ABC$ and $\angle DEF$ are supplementary angles. The measure of $\angle DEF$ is twenty degrees less than three times the measure of $\angle ABC$. What are $m\angle ABC$ and $m\angle DEF$?

30. \overrightarrow{SQ} bisects $\angle RST$. $m\angle QST = 2x + 18$ and $m\angle RST = 6x - 2$. What is $m\angle RSQ$?