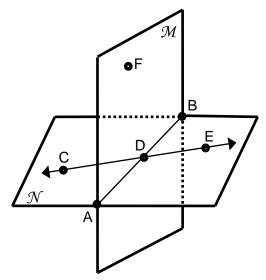
NAME	DATE	PER

UNIT 1 REVIEW: FOUNDATIONS OF GEOMETRY

Match the name with its definition. Place letter in first blank. Then use the picture below to give a correct example (with symbols and letters) of that figure in second blank.

1. Point: Ex	_ A. Points that lie on the same line.
2. Line: Ex:	B. Part of a line consisting of one endpoint and extending infinitely in one direction.
3. Line Segment: Ex:	directions.
4. Ray: Ex:	D. A flat surface that continues infinitely in all directions.
5. Opposite Rays: Ex:	E. Points that lie on the same plane.
6. Plane: Ex:	F. An exact location in space with an indefinite shape and size.
7. Collinear: Ex:	G. Part of a line consisting of two endpoints and all the points in between.
8. Non-Collinear: Ex:	H. An object with no thickness that extends infinitely in two directions.
9. Coplanar: Ex:	I. Points that do not lie on the same plane.
10. Non-Coplanar: Ex:	J. Points that do not lie on the same line.



Using the f	igure below, name	e each of the following:
11. The intersection of BAF and GHE:		
12. The inte	ersection of CDA an	nd HC:
13. A point	collinear with G:	DH
Using the f	igure above, tell w	whether each statement is TRUE or FALSE.
	14. A and B are o	collinear.
	15. C, A, D, & F a	re coplanar.
	16. EFG and ABE	intersect at E.
The number	LENGTH - NUME ers given are the c etween the two po	coordinates of two points on a <u>number line</u> . Find the
17. d =		-3 and 5
18. d =		-11 and -27
SEGMENT Given that		nd C, find the indicated length.
19. BC = _		AB = 5.3 and AC = 6.7. Find BC.

If B is between A and C, find the value of 'x' and BC.

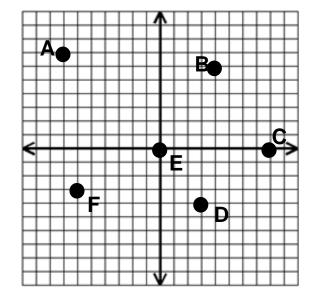
$$AB = 3x$$
, $BC = 5x$, and $AC = 8$.

$$AB = 3(x + 7)$$
, $BC = 2(x - 3)$, and $AC = 50$.

COORDINATE PLANE DISTANCE FORMULA

Find the length of the segment formed by connecting the points with the given coordinates. Round answers to the nearest tenth.

Find the length of each segment indicated below.



25. FD =	_
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SEGMENT MIDPOINT – NUMBER LINE

The numbers given are the coordinates of two points on a number line. Find the midpoint of the segment joining the two points.

26. midpoint:	-2 and 6
27. midpoint:	4 and 12

COORDINATE PLANE - SEGMENT MIDPOINT FORMULA

Find the midpoint the segment formed by connecting each pair of coordinates.

28. midpoint:	A(0, 0) and B(2, 5)
29 midpoint:	C(-3, 3) and D(-8, -5)

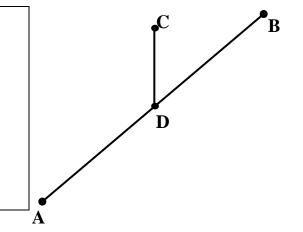
Given that B is the midpoint of AC, find the coordinates of the endpoint indicated.

30. C()	A(-5, 1) and B(-2, 0)

SEGMENTS AND BISECTORS

In the figure below, $\overline{\text{CD}}$ bisects $\overline{\text{AB}}$ at D. For each of the following, find the value of 'x' and the measure of the segment indicated.

31. x = _____ AD = 2x + 11 DB = 4x - 5



D

32. x =	AB = 5x - 4 DB = x + 1