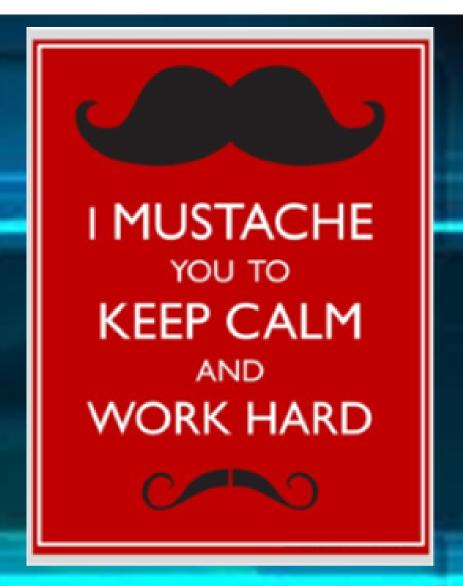
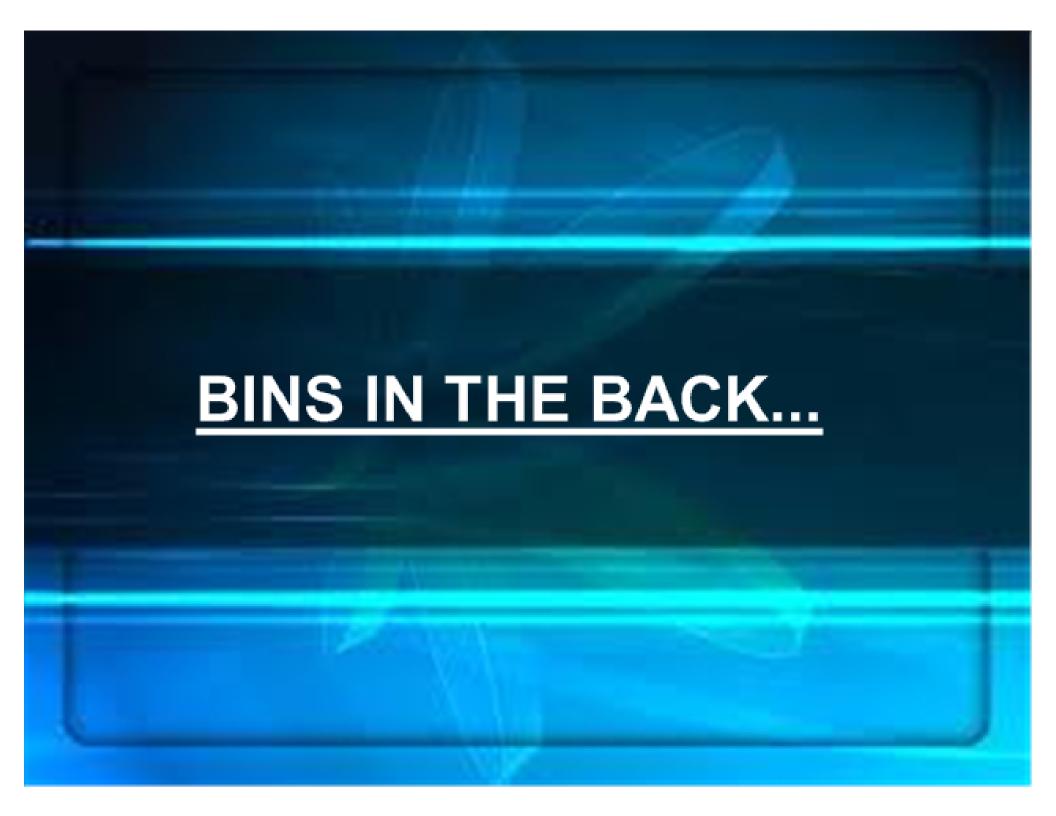
Good Morning!!

Have a seat...



Did you remember to get your texbooks covered?



Skills Check Answers

- 1. The distance around a rectangle is called its <u>PERIMETER</u>, and the distance around a circle is called its <u>CIRCUMFERENCE</u>.
- 2. The number of square units covered by a figure is called its <u>AREA</u>

Evaluate each expression

2

1

18

Evaluate the expression when x = 2.

4

8.
$$-5x - 4 + 2x$$

-10

Solve the equation.

10

9.
$$274 = -2x$$

10.
$$8x + 12 = 60$$

11.
$$8m - 5 = 25 - 2m$$

一137



3

12.
$$4(x-7) = -12$$

13.
$$5(x + 8) = 4x$$

-40

Simplify each expression. All variables are positive.

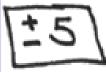
14.
$$\sqrt{(0-h)^2}$$

15.
$$\frac{2m+2n}{2}$$

16.
$$\sqrt{r^2 \cdot r^2}$$

m+n

18.
$$48 + x^2 = 84$$





Simplify each expression.

20.
$$\frac{9.20}{15}$$

21.
$$\frac{15}{25}$$

22.
$$\frac{3+4+5}{6+8+10}$$



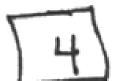
Solve the proportion.

23.
$$\frac{3}{x} = \frac{12}{16}$$

24.
$$\frac{2}{3} = \frac{x}{15}$$

25.
$$\frac{x+4}{x-4} = \frac{6}{5}$$

 $5x+20 = 6x - 24$
 $44 = x$



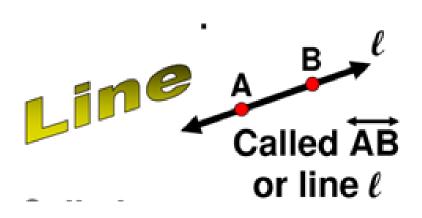
Sections 1.1

Identifying Points, Lines, Planes, and Segments.

1.1 Points, Lines, and Planes



A point has <u>no</u> dimension. It is represented by a <u>dot.</u>



A Line has 1 dimension. It is represented by a line with 2 arrowheads, but it extends without end.

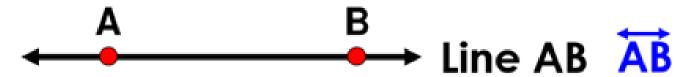
Through any 2 points, there is exactly 1 line. You can use any 2 points on a line to name it.

Called plane ABC plane or plane M

A Plane has 2 dimensions. it is represented by a shape that looks like the floor or wall. But it extends witout end.

Through any 3 points not on the same line, there is exactly 1 plane. You can use 3 points that are not all on the same line to name a plane.

1.1 Line Segments and Rays

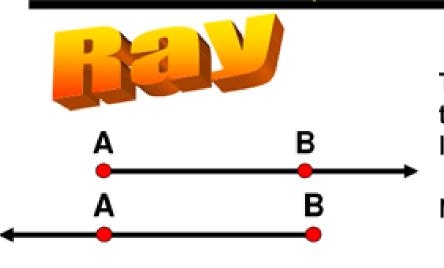


Line Segment



The line segment AB, or segment AB (written as AB) consists of the endpoints A and B and all points on AB that are between A and B.

Note that AB can also be named BA



The ray AB (written as \overrightarrow{AB}) consists of the endpoint A and all points on \overrightarrow{AB} that lie on the same side of \overrightarrow{A} as \overrightarrow{B} .

Note that \overrightarrow{AB} and \overrightarrow{BA} are <u>different</u> rays.

Practice

Write if each is a point, line segment, line, or ray and its name.

Example:



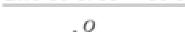
1



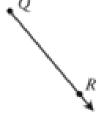
2.



Line TS or ST \overrightarrow{TS} or \overrightarrow{ST}



3.



Segment C



5.



Ray Q

6.



7



8.



ANSWERS

Write if each is a point, line segment, line, or ray and its name.

Example:



1.



2.



Line TS or ST \overrightarrow{TS} or \overrightarrow{ST}

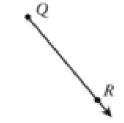
Line 15 or 31 15 or 31

Line Segment CD or DC \overline{CD} or \overline{DC}

Ray XY

 \overrightarrow{XY}

3.



4.

 L_{\bullet}

5.



Ray QR

 \overrightarrow{QR}

Point L

Line Segment NO or ON \overline{NO} or \overline{ON}

6.



7.



8.



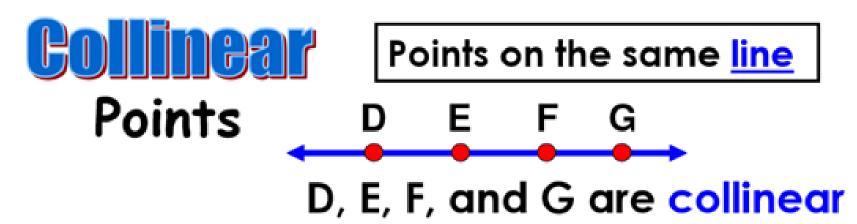
Line UV or VU UV or VU

Line HI or IH HI or IH

Ray KJ

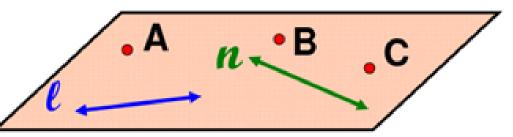
 \overrightarrow{KJ}

1B. Collinear and Coplanar



Coplana Points on the same plane

Points or Lines



A, B, and C are coplanar points Lines ℓ and n are coplanar lines

"Co" means "together"

Example 1: Naming Points

 Three points that are collinear:



are coplanar:

 Three points that are not collinear:

Practice 1A: Naming Points

Name a point that is <u>collinear</u> with the

given points

• B and E: 💷

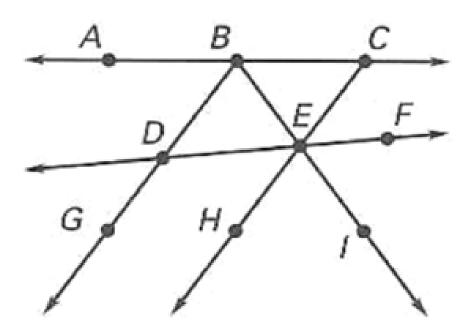
• C and H:

• D and G: 3

• A and C: B

• H and E: (

• G and B:



Practice 1B: Naming Points

Name a point that is <u>coplanar</u> with the given points

• M, N, R:

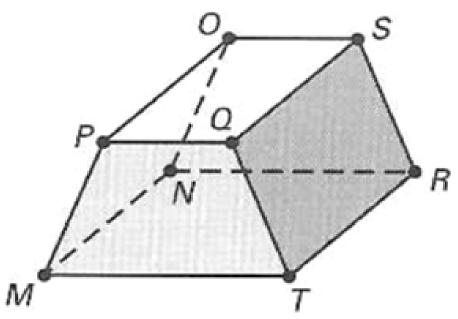
• M, N, O:

• M, T, Q: ₹

• Q, T, R: S

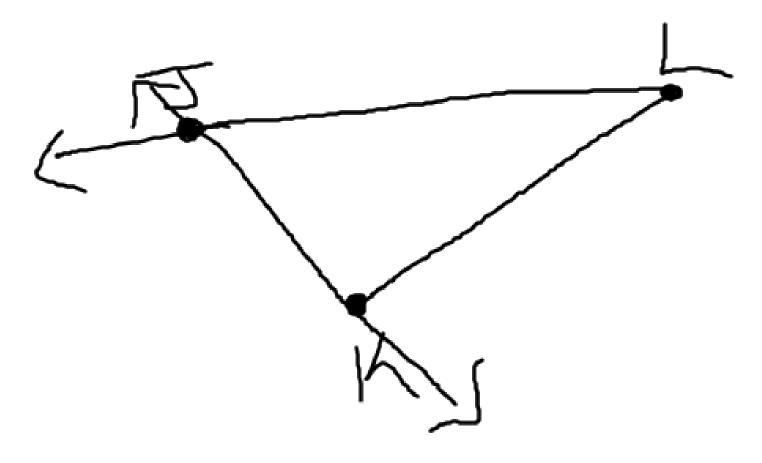
• T, R, S:

• Q, S, O: 多



Example 2: Drawing Lines & Rays

- Draw points J, K, and L (non-collinear)
- Then, draw \overrightarrow{JK} , \overrightarrow{KL} , and \overrightarrow{LJ}



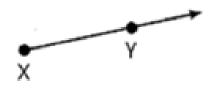
Determine whether each statement is true or false.

- 1) A point has no length, width, or thickness.
- 2) A line is limited in length.
- 3) A plane has boundaries that are lines.
- 4) \overrightarrow{AB} and \overrightarrow{BA} name the same line.

Define Collinear and Coplanar.

Name each point, line, line segment, or ray.

T.



2.

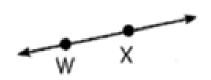


3.

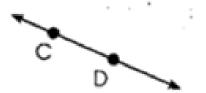


• T

4.



5



6.

