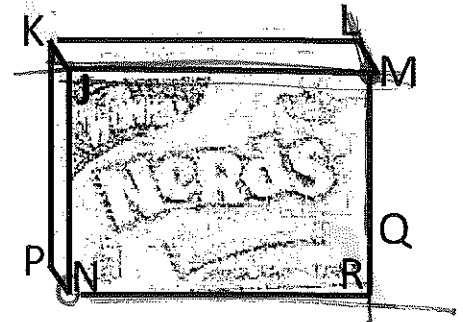


**Learning Target(s):** I am able to identify parallel and skew lines, and parallel planes.  
 I am able to identify angle pairs formed by three intersecting lines.

**Notes: 3.1 Identify Pairs of Lines and Angles**

**NERDS:**

Label each point (corner) as shown in the diagram.



1. Will  $\overline{JM}$  and  $\overline{LQ}$  ever intersect in space? What kind of lines are they?

No - skew

2. Will the pair of lines intersect in space?

a.  $\overline{JK}$  and  $\overline{NR}$  NO

b.  $\overline{LM}$  and  $\overline{MR}$  Yes

c.  $\overline{QR}$  and  $\overline{MR}$  Yes

d.  $\overline{KL}$  and  $\overline{NQ}$  NO

3. Does the pair of lines lie in one plane?

a.  $\overline{JK}$  and  $\overline{QR}$  Yes

b.  $\overline{QR}$  and  $\overline{MR}$  Yes

c.  $\overline{JN}$  and  $\overline{LR}$  NO

d.  $\overline{JL}$  and  $\overline{NQ}$  Yes

4. Do pairs of lines that intersect in space also lie in the same plane? Explain your reasoning.



3 points make Yes!  
a plane

5. Which line(s) or plane(s) in the figure appear to fit the description?

a. Line(s) parallel to  $\overline{JM}$  and and contain the point N



b. Line(s) skew to  $\overline{JM}$  and containing point N



c. Line(s) perpendicular to  $\overline{JM}$  and containing point N



d. Plane(s) parallel to plane LMQ and containing point N

plane KJN

**Parallel Postulate**

If there is a line and a point not on the line,  
 then there is exactly **one** line through the point  
 \_\_\_\_\_ to the given line.

There is exactly **one** line through \_\_\_\_\_  
 \_\_\_\_\_ to \_\_\_\_\_.