

Target 3.1.a: Identify pairs of perpendicular, skew, and parallel lines.

Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

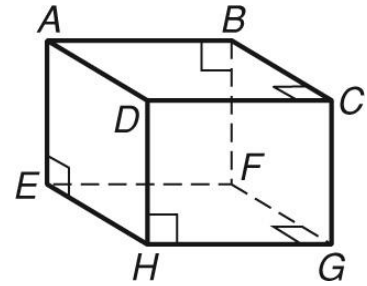
EH 1.) a segment that is parallel to \overline{FG} .

HG 2.) a segment that is perpendicular to \overline{EH} .

EH 3.) a segment that is skew to \overline{CD} .

ADH & BCG 4.) one pair of parallel planes

varies

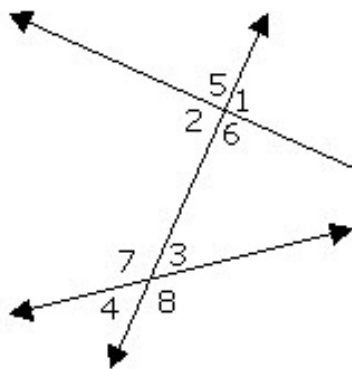


Target 3.1.b: Classifying each pair of angles.

Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

5.) Using the diagram below, name one pair of each of the following:



varies

Vertical Angles: ∠5, ∠6

Linear Pair Angles: ∠1, ∠5

Corresponding Angles: ∠1, ∠3

Alternate Interior Angles: ∠2, ∠3

Alternate Exterior Angles: ∠5, ∠8

Same Side Interior Angles: ∠6, ∠3

Same Side Exterior Angles: ∠5, ∠4

Target 3.2.a: Given two parallel lines, find an angle measure.

Self-Assess: How well do I understand this Target?

1 2 3 4 5
 Uh oh! It's Okay... I got this!!!

6.) Solve for x.

if // → corr ∠s ≅

Given: $s \parallel r$

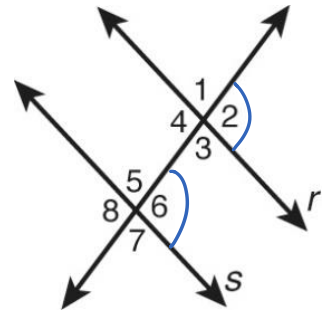
- 10x + 4 = 8x + 28

$m\angle 2 = (10x + 4)^\circ$

2x = 24

$m\angle 6 = (8x + 28)^\circ$

x = 12



Target 3.2.b: Given two parallel lines, prove angles congruent.

Self-Assess: How well do I understand this Target?

1 2 3 4 5
 Uh oh! It's Okay... I got this!!!

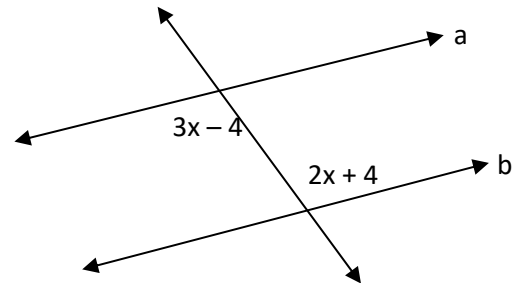
8.) If $x = 8$, are lines a and b parallel?

3(8) - 4 = 20

If yes, please provide a theorem.

2(8) + 4 = 20

if alt int ∠s ≅ → //



Target 3.4.a: Use properties of lines and the perpendicular transversal theorem to find the measure of angles.

Self-Assess: How well do I understand this Target?

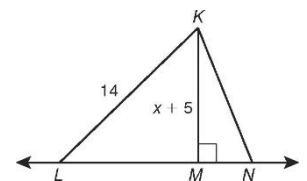
1 2 3 4 5
 Uh oh! It's Okay... I got this!!!

12.) Which segment is the shortest? \overline{KM}

Write an inequality and solve for x.

x + 5 < 14
-5 -5

x < 9



Target 3.5.a: Calculate the slope of the lines given two points.

Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

14.) Find the slope given the points (-3, -6) and (12, -1)

$$\frac{1 - (-6)}{12 - (-3)} = \frac{5}{15} = \frac{1}{3}$$

Target 3.5.b: Use slope to determine if lines are parallel, perpendicular, or neither.

Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

16.) Determine whether \overline{AB} and \overline{CD} are parallel, perpendicular, or neither for A(-4, 5), B(2, 3), C(3, 1), and D(4, 4).

$$\begin{aligned} \overleftrightarrow{AB} &= \frac{3-5}{2-(-4)} = \frac{-2}{6} = -\frac{1}{3} \\ \overleftrightarrow{CD} &= \frac{4-1}{4-3} = \frac{3}{1} = 3 \end{aligned} \left. \vphantom{\begin{aligned} \overleftrightarrow{AB} \\ \overleftrightarrow{CD} \end{aligned}} \right\} \text{perpendicular}$$

Target 3.6.a: Write an equation of a line in slope intercept form and point-slope form.

Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

17.) Write an equation of a line in slope-intercept form and point-slope form that passes through the points (-1,8) and (4, -2).

$$m = \frac{-2-8}{4-(-1)} = \frac{-10}{5} = -2$$

$$\begin{aligned} y &= mx + b & y + 2 &= -2(x - 4) \\ y &= -2x + b & & \text{OR} \\ 8 &= -2(-1) + b & y - 8 &= -2(x + 1) \\ 8 &= 2 + b & & \\ b &= 6 & & \\ y &= -2x + 6 & & \end{aligned}$$

Target 3.6.a: Properties of parallel and perpendicular lines and graphing.

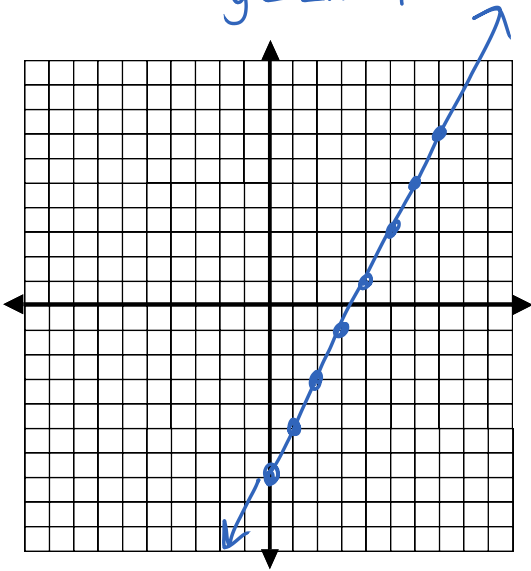
Self-Assess: How well do I understand this Target?

1	2	3	4	5
Uh oh!		It's Okay...		I got this!!!

20.) Graph $2x - y = 7$

$$\frac{y}{-1} = \frac{-2x + 7}{-1}$$

$$y = 2x - 7$$



To prepare for the test, do not forget to look over ALL the note sheets, homework assignments, and in-class assignments!

Good Luck! Study Hard!