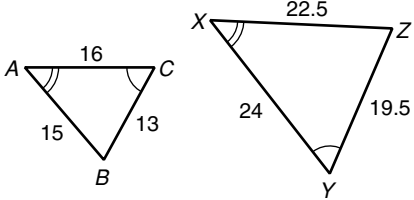
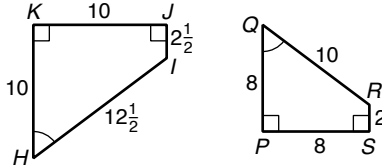


LESSON **Practice B**
7-2 **Ratios in Similar Polygons**

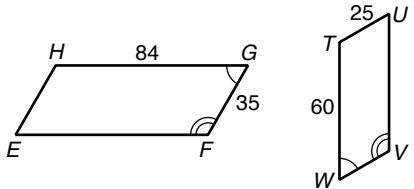
Identify the pairs of congruent corresponding angles and the corresponding sides.

1. 

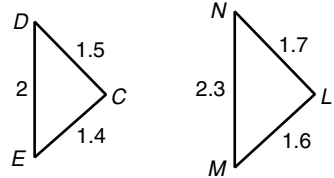
2. 

Determine whether the polygons are similar. If so, write the similarity ratio and a similarity statement. If not, explain why not.

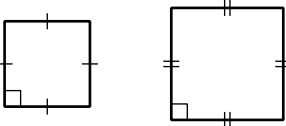
3. parallelograms $EFGH$ and $TUVW$

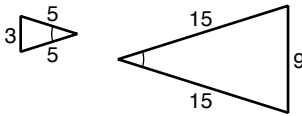


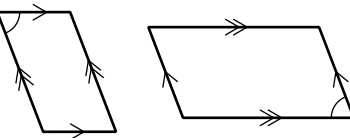
4. $\triangle CDE$ and $\triangle LMN$

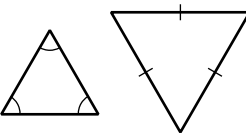


Tell whether the polygons must be similar based on the information given in the figures.

5. 

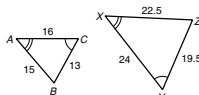
6. 

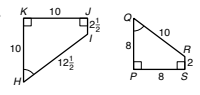
7. 

8. 

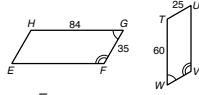
LESSON 7-2 Practice B Ratios in Similar Polygons

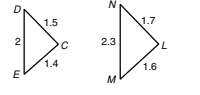
Identify the pairs of congruent corresponding angles and the corresponding sides.

1. 
 $\angle A \cong \angle X; \angle B \cong \angle Z; \angle C \cong \angle Y;$
 $\frac{AC}{XY} = \frac{AB}{XZ} = \frac{BC}{ZY} = \frac{2}{3}$

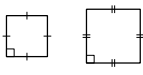
2. 
 $\angle H \cong \angle Q; \angle I \cong \angle R; \angle J \cong \angle S;$
 $\angle K \cong \angle P;$
 $\frac{KJ}{PS} = \frac{KH}{PQ} = \frac{HI}{QR} = \frac{JI}{SR} = \frac{5}{4}$

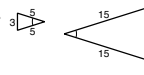
Determine whether the polygons are similar. If so, write the similarity ratio and a similarity statement. If not, explain why not.

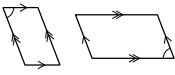
3. parallelograms EFGH and TUVW

 yes; $\frac{7}{5}$; Possible answer: $\square EFGH \sim \square WTUV$

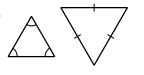
4. $\triangle CDE$ and $\triangle LMN$

 No; sides cannot be matched to have corresponding sides proportional.

Tell whether the polygons must be similar based on the information given in the figures.

5. 
 yes

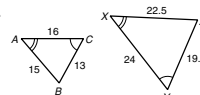
6. 
 yes

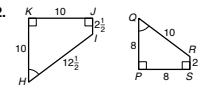
7. 
 no

8. 
 yes

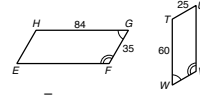
LESSON 7-2 Practice B Ratios in Similar Polygons

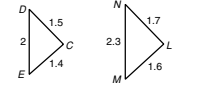
Identify the pairs of congruent corresponding angles and the corresponding sides.

1. 
 $\angle A \cong \angle X; \angle B \cong \angle Z; \angle C \cong \angle Y;$
 $\frac{AC}{XY} = \frac{AB}{XZ} = \frac{BC}{ZY} = \frac{2}{3}$

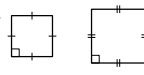
2. 
 $\angle H \cong \angle Q; \angle I \cong \angle R; \angle J \cong \angle S;$
 $\angle K \cong \angle P;$
 $\frac{KJ}{PS} = \frac{KH}{PQ} = \frac{HI}{QR} = \frac{JI}{SR} = \frac{5}{4}$

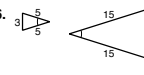
Determine whether the polygons are similar. If so, write the similarity ratio and a similarity statement. If not, explain why not.

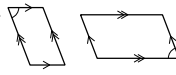
3. parallelograms EFGH and TUVW

 yes; $\frac{7}{5}$; Possible answer: $\square EFGH \sim \square WTUV$

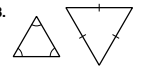
4. $\triangle CDE$ and $\triangle LMN$

 No; sides cannot be matched to have corresponding sides proportional.

Tell whether the polygons must be similar based on the information given in the figures.

5. 
 yes

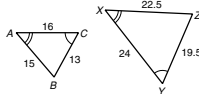
6. 
 yes

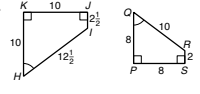
7. 
 no

8. 
 yes

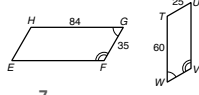
LESSON 7-2 Practice B Ratios in Similar Polygons

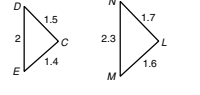
Identify the pairs of congruent corresponding angles and the corresponding sides.

1. 
 $\angle A \cong \angle X; \angle B \cong \angle Z; \angle C \cong \angle Y;$
 $\frac{AC}{XY} = \frac{AB}{XZ} = \frac{BC}{ZY} = \frac{2}{3}$

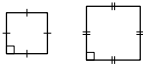
2. 
 $\angle H \cong \angle Q; \angle I \cong \angle R; \angle J \cong \angle S;$
 $\angle K \cong \angle P;$
 $\frac{KJ}{PS} = \frac{KH}{PQ} = \frac{HI}{QR} = \frac{JI}{SR} = \frac{5}{4}$

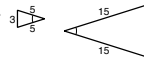
Determine whether the polygons are similar. If so, write the similarity ratio and a similarity statement. If not, explain why not.

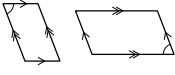
3. parallelograms EFGH and TUVW

 yes; $\frac{7}{5}$; Possible answer: $\square EFGH \sim \square WTUV$

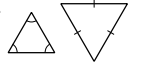
4. $\triangle CDE$ and $\triangle LMN$

 No; sides cannot be matched to have corresponding sides proportional.

Tell whether the polygons must be similar based on the information given in the figures.

5. 
 yes

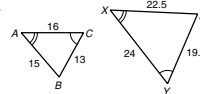
6. 
 yes

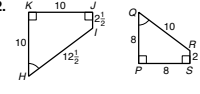
7. 
 no

8. 
 yes

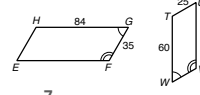
LESSON 7-2 Practice B Ratios in Similar Polygons

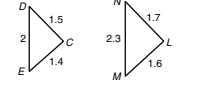
Identify the pairs of congruent corresponding angles and the corresponding sides.

1. 
 $\angle A \cong \angle X; \angle B \cong \angle Z; \angle C \cong \angle Y;$
 $\frac{AC}{XY} = \frac{AB}{XZ} = \frac{BC}{ZY} = \frac{2}{3}$

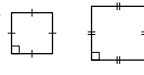
2. 
 $\angle H \cong \angle Q; \angle I \cong \angle R; \angle J \cong \angle S;$
 $\angle K \cong \angle P;$
 $\frac{KJ}{PS} = \frac{KH}{PQ} = \frac{HI}{QR} = \frac{JI}{SR} = \frac{5}{4}$

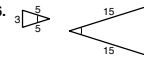
Determine whether the polygons are similar. If so, write the similarity ratio and a similarity statement. If not, explain why not.

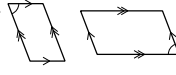
3. parallelograms EFGH and TUVW

 yes; $\frac{7}{5}$; Possible answer: $\square EFGH \sim \square WTUV$

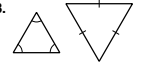
4. $\triangle CDE$ and $\triangle LMN$

 No; sides cannot be matched to have corresponding sides proportional.

Tell whether the polygons must be similar based on the information given in the figures.

5. 
 yes

6. 
 yes

7. 
 no

8. 
 yes