

Math 2

- toolkits
- gluesticks
- scissors

Study
for quiz

$$4 \quad \underline{\text{Scale Factor}} : \frac{\text{New}}{\text{old}}$$

$$4 \quad \frac{\text{Scale factor}}{\text{Perimeter}} : \text{same}$$

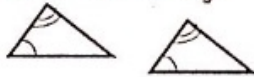
$$16 \quad \frac{\text{Scale Factor}}{\text{Area}} : (\text{SF})^2$$

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AA

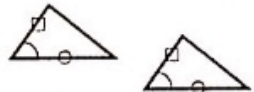
Similarity



If **two angles** of one triangle are **congruent** to two angles of another triangle, then the triangles are *similar*.

SAS

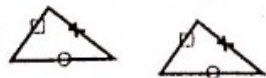
Similarity



In two triangles, if a pair of **corresponding angles** is **congruent** and the **sides** including the angle are **proportional**, then the triangles are *similar*.

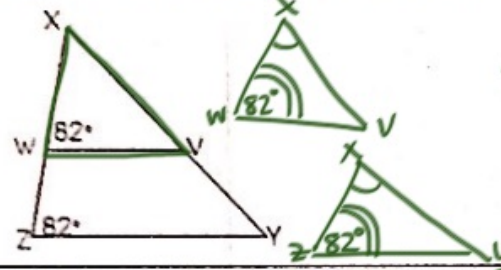
SSS

Similarity



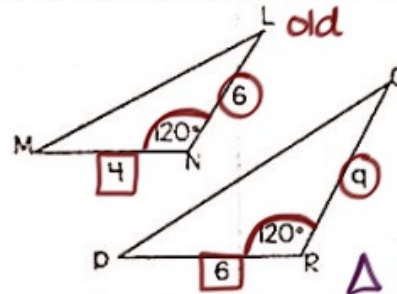
If all **three pairs** of corresponding **sides** of two triangles are **proportional**, then the two triangles are *similar*.

EX 1: Are the two triangles similar? If so, state how and write a similarity statement.



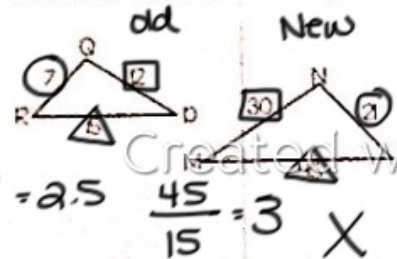
$\Delta VWX \sim \Delta YZX$

EX 3: Are the two triangles similar? If so, state how and write a similarity statement.



$\frac{9}{6} = 1.5$ ✓
 $\frac{6}{4} = 1.5$
 $\Delta LMN \sim \Delta QPR$

EX 5: Are the two triangles similar? If so, state how and write a similarity statement.



$\frac{30}{12} = 2.5$ $\frac{45}{15} = 3$ X
 * different scale factor



EX 2: Are the two triangles similar? If so, state how and write a similarity statement.

$\Delta FGH \sim \Delta JKH$

EX 4: Are the two triangles similar? If so, state how and write a similarity statement.

$\frac{15}{10} = 1.5$
 $\frac{9}{6} = 1.5$

$\Delta KLM \sim \Delta ELJ$

EX 6: Are the two triangles similar? If so, state how and write a similarity statement.

$\frac{121}{44} = 2.75$
 $\frac{143}{52} = 2.75$
 $\frac{88}{32} = 2.75$

$\Delta KLM \sim \Delta DLE$

1 SAS

$\frac{36}{20} = 1.8$
 $\frac{27}{15} = 1.8$

2

3

4

$\overline{AB} \parallel \overline{CE}$

5

$\overline{BC} = 20$

6

7

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<p>3</p>	<p>4</p>
<p>7</p>	<p>8</p>
<p>11</p>	<p>12</p>
<p>15</p>	<p>16</p>

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