## Classwork 2.7 Similar Triangles

Explain why the triangles are similar, and write a similarity statement.

1. $0^{R Q S} \sim$ $\qquad$ by $\qquad$

2. 园DEF~ $\qquad$ by $\qquad$

3. ${ }^{2} \mathrm{ABC} \sim$ $\qquad$ by
4. $\mathrm{O}_{\mathrm{ABC}} \sim$ $\qquad$ by

$\qquad$

5. ${ }^{2} \mathrm{QPR} \sim$ $\qquad$ by $\qquad$
6. ${ }^{2} \mathrm{AEF} \sim$ by

7. ${ }^{\text {PHGJ }} \sim$ $\qquad$ by

8. ${ }^{\text {RRST~ }} \sim$ $\qquad$ by $\qquad$


Explain why the triangles are similar, and find each length.
9. Similar by
 and GK = $\qquad$ 10. Similar by $\qquad$ and $R Q=$ $\qquad$

11. Similar by $\qquad$ and $\mathrm{MN}=$ $\qquad$ 12. Similar by $\qquad$ and $\mathrm{DE}=$ $\qquad$

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Solutions
Explain why the triangles are similar, and write a similarity statement.

1) $\mathrm{RQS} \sim$ UTV by

2) $\mathrm{DEF} \sim \ldots \quad \mathrm{ABS}$ by
SAS

3) $\mathrm{ABC} \sim$ _ MCP by SSS
4) ${ }^{2} \mathrm{ABC} \sim \mathrm{XZY}$ by AA

5) (2QPR~ $\qquad$ by SAS

6) $\operatorname{TaEF} \sim \underset{E}{\mathrm{ABC}}$ by
7) $0 \mathrm{RST} \sim \xrightarrow{\mathrm{IKL}}$ by AA


Explain why the triangles are similar, and find each length.
9) Similar by $_{\sim} \frac{\mathrm{AA}}{K}$ and $\mathrm{GK}=\underline{7.3}$
10) Similar by $\operatorname{SAS}$ and $R Q=\underline{15}$


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11) Similar by $\qquad$ and $\mathrm{MN}=$ $\qquad$ 12) Similar by $\qquad$ and $D E=$ $\qquad$


