Name _____ Date _____

If you turn this in on time: do the odds.
If you turn this in late or
you are doing it over: do the evens.

Student score:
How well do you feel you understand this learning target:
A
B
C
D
F

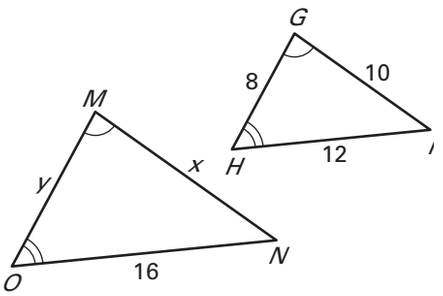
LESSON 6.4

Practice A

For use with pages 381–387

Teacher Score:

Use the diagram to complete the statement.



1. $\triangle MON \sim$?

2. $\frac{MN}{?} = \frac{ON}{?} = \frac{MO}{?}$

3. $\frac{16}{12} = \frac{?}{10}$

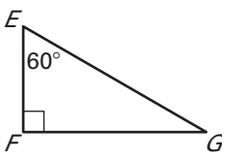
4. $\frac{12}{16} = \frac{?}{y}$

5. $x =$?

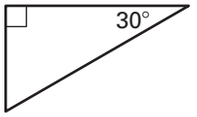
6. $y =$?

Which triangles are similar to $\triangle EFG$? *Explain*.

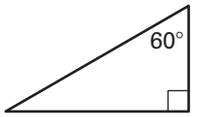
7.



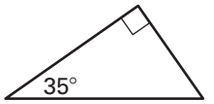
A.



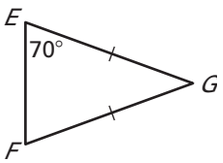
B.



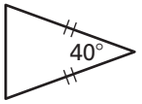
C.



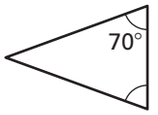
8.



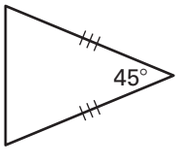
A.



B.

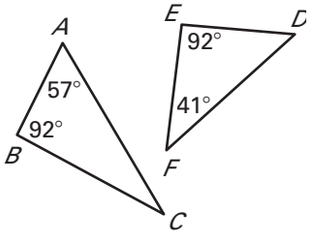


C.



Determine whether $\triangle ABC$ and $\triangle DEF$ are *similar*, *not similar*, or *cannot be determined* from the information given in the figure.

9.



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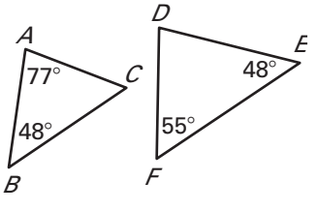

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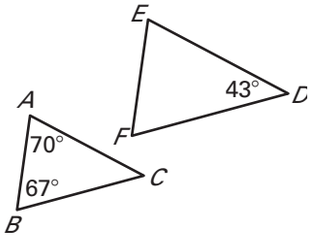

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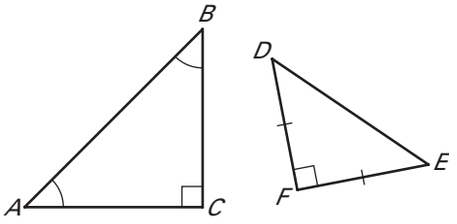


Name _____ Date _____

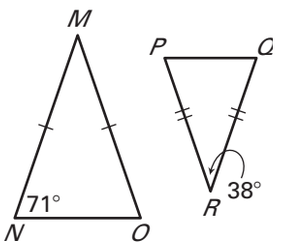
LESSON 6.4

Practice A *continued*

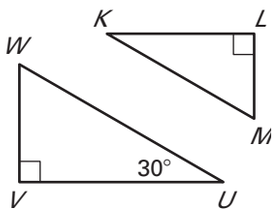
For use with pages 381–387

Determine whether the triangles can be proved similar. If they are similar, write a similarity statement. *Explain* your reasoning.

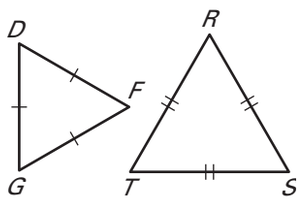
13.



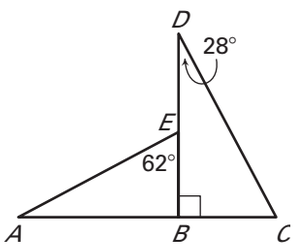
14.



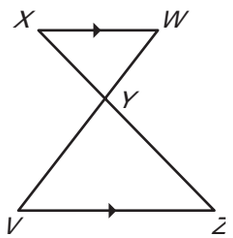
15.



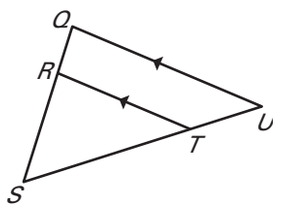
16.



17.

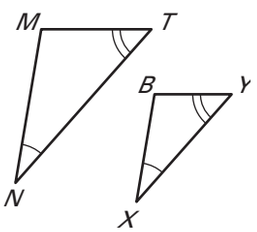


18.



Show that the triangles are similar.

19.



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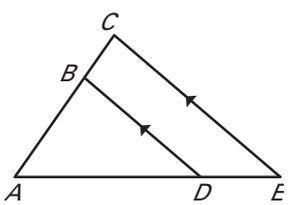

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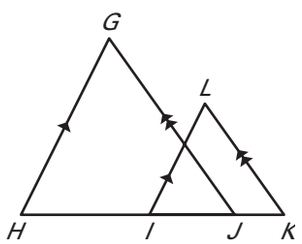
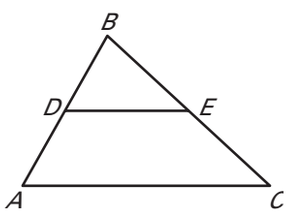


22. Proof Write a two-column or paragraph proof.

GIVEN: $\overline{DE}$ is a midsegment of $\triangle ABC$.

PROVE: $\triangle ABC \sim \triangle DBE$



23. A-Frame The A-frame building shown in the figure has a balcony that is 16 feet long, 16 feet high, and parallel to the ground. The building is 28 feet wide at its base. How tall is the A-frame building?