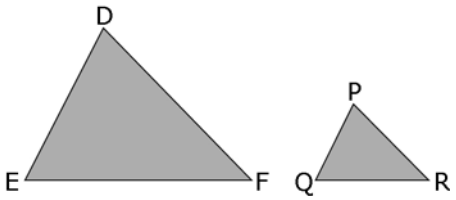
Name: _____ Date: _____

BLM 4–4

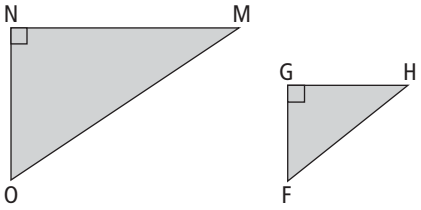
Section 4.3 Extra Practice

1. List the corresponding angles and the corresponding sides in each pair of triangles.

a)



b)



$\angle$D corresponds to _____. _____

$\angle$E corresponds to _____. _____

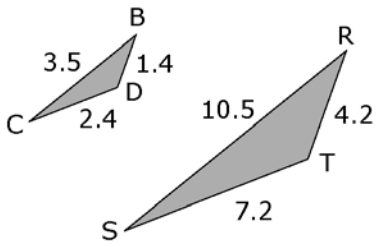
$\angle$F corresponds to _____. _____

DE corresponds to _____. _____

EF corresponds to _____. _____

DF corresponds to _____. _____

2. Compare the corresponding sides.
Are the triangles similar?
Show your work.



$\frac{RS}{BC} = \frac{\square}{\square}$ $\frac{ST}{CD} = \frac{\square}{\square}$ $\frac{RT}{BD} = \frac{\square}{\square}$

= _____ = _____ = _____

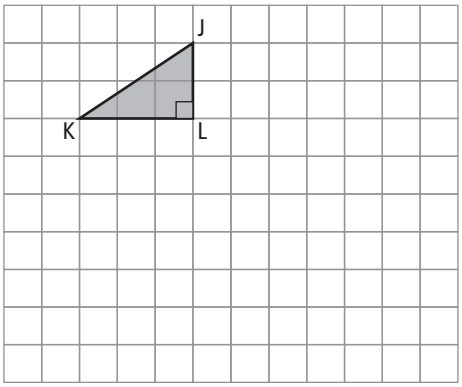
_____

ISBN: 978–0–07–000219–7

Name: _____ Date: _____

BLM 4–4
(continued)

3. a) Use a scale factor of 2 to draw △WXY so that it is similar to △JKL.



b) List the corresponding angles and the corresponding sides.

∠J corresponds to ∠_____. JK corresponds to _____.

∠K corresponds to ∠_____. JL corresponds to _____.

∠L corresponds to ∠_____. KL corresponds to _____.

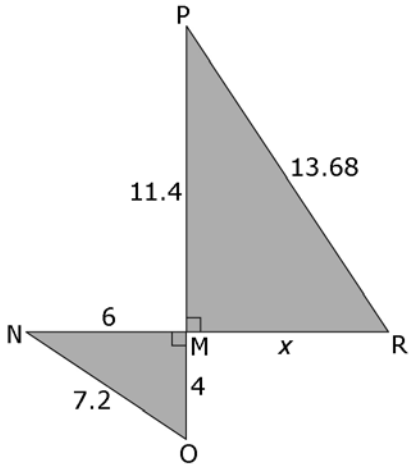
4. Δ MNO is similar to Δ MPR.
Calculate the missing length, x, to the nearest tenth.

Hint: Use the scale factor to solve for the missing length.

$$\frac{MP}{MN} = \frac{\square}{\square}$$

$$= \_\_\_\_\_$$

Find x.

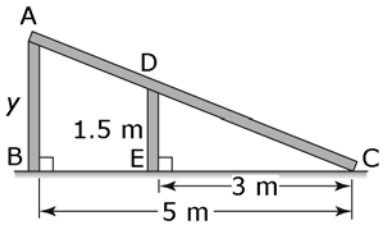


ISBN: 978–0–07–000219–7

Name: _____ Date: _____

BLM 4–4
(continued)

5. The two vertical supports on a ramp form 2 triangles. Δ ABC is similar to Δ DEC.



a) Draw the 2 triangles separately and label with the correct measurements.

b) Write the corresponding sides and angles.

c) Find the scale factor.

d) Find the height of the ramp by calculating the missing length, *y*. Show your work.

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