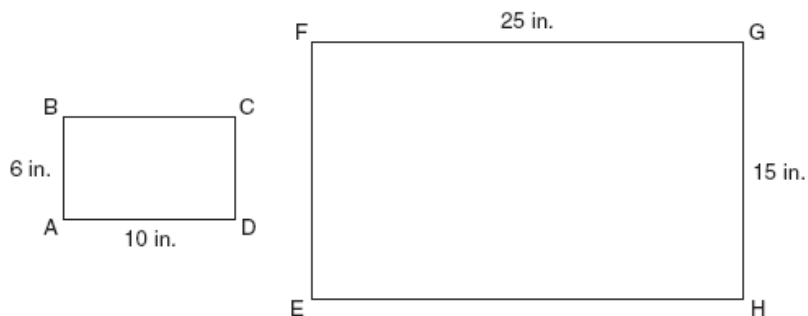Name _____ Class _____ Date_____

PreAlgebra: Dilations & Finding Scale Factor Worksheet
Show your work!!!

1.

Rectangle ABCD is similar to rectangle EFGH.
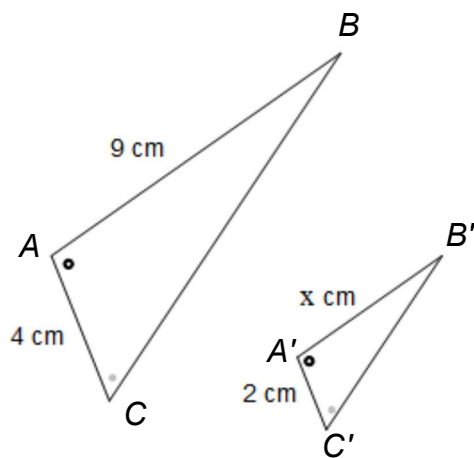

What is the scale factor from rectangle ABCD to rectangle EFGH?

A   1.5
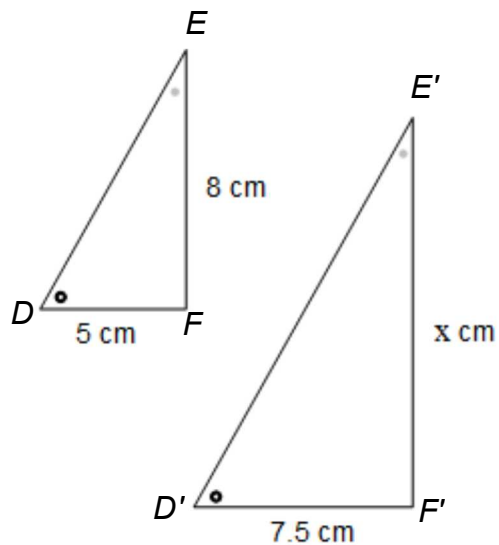
B   2.5

C   5.0

D   19.0

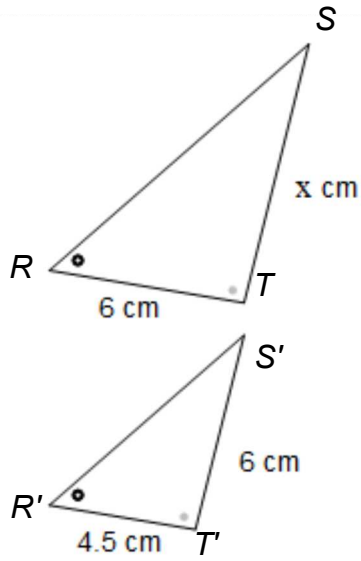Write the *scale factors* and *values for x* for the pairs of similar triangles below.
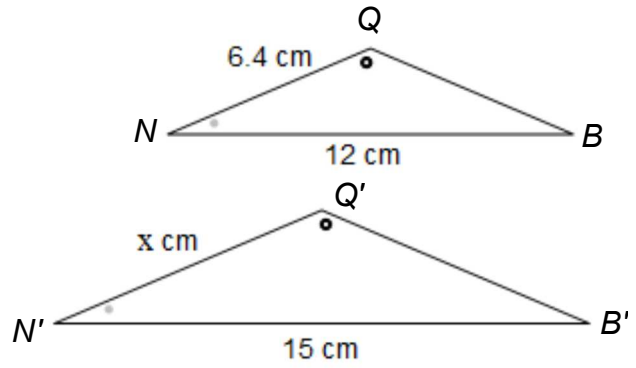
2.

Scale Factor: ____ x = _____
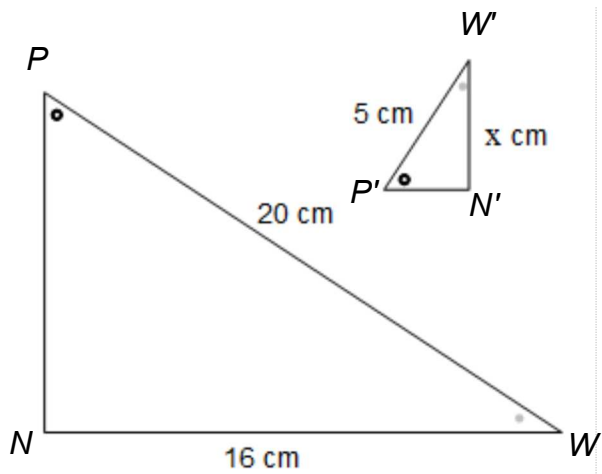
3.

Scale Factor: ____ x = _____

3.

S

x cm

R

6 cm

T

S'

6 cm

R'

4.5 cm   T'

Scale Factor: _____ x = ___

4.

Q

6.4 cm

N

12 cm

B

Q'

x cm

N'

15 cm

B'

Scale Factor: _____ x = ___

5.

W'

P

5 cm

x cm

20 cm

P'

N'

N

16 cm

W

Scale Factor: _____ x = ___

6.

H

3.5 cm

G

8.4 cm

J

x cm

G'

J'

5 cm

H'
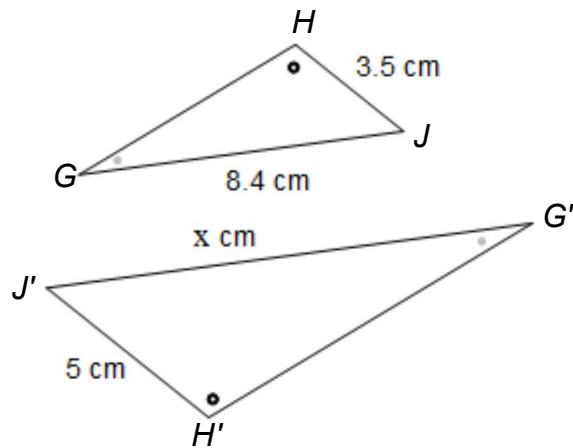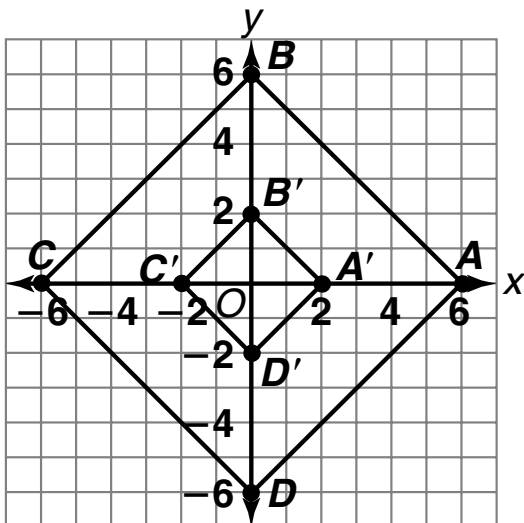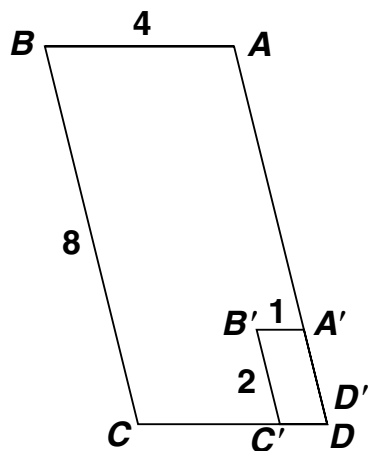
Scale Factor: _____ x = ___

Quadrilateral *A'B'C'D'* is a dilation of quadrilateral *ABCD*. Find the scale factor. Classify each dilation as an enlargement or a reduction.

7. Scale Factor is _____

8. Scale Factor is _____

9. Scale Factor is _____