

Name(s): _____

Write the similarity statement and determine the scale factor for each set of the polygons below.

① Scale Factor: $\frac{12}{4} = \frac{3}{1}$

Similarity Statement: $\overline{DF} \sim \overline{AB}$
 $\overline{AC} \sim \overline{EF}$
 $\overline{BC} \sim \overline{ED}$

NEW
ORIGINAL

EXAMPLE

② Scale Factor:

NEW
ORIGINAL

Similarity Statement:

③ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

④ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

⑤ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

⑥ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

⑦ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

⑧ Scale Factor:

Similarity Statement:

NEW
ORIGINAL

A
B
C
Acc

A
B

Acc

SCALE

A
B
C
Acc

A
B
C
Acc

A

C
Acc

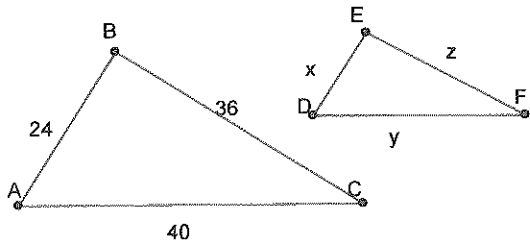
Name(s): _____

Given the scale factor and side measures, find the length of the missing sides.

A
B
C
Acc

$\triangle ABC \sim \triangle DEF$
Scale Factor: $4/3$

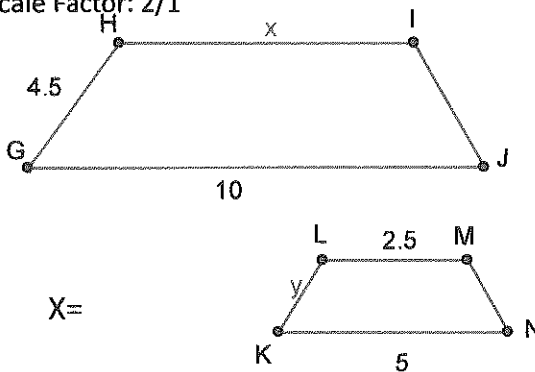
(9)



X=
Y=
Z=

$GHIJ \sim KLMN$
Scale Factor: $2/1$

(10)

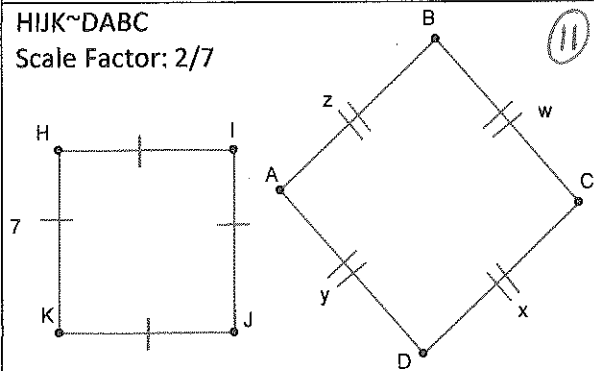


X=
Y=

A
B
C
Acc

$HIJK \sim DABC$
Scale Factor: $2/7$

(11)



W=
X=
Y=
Z=

Scale Factor: $2/3$
Triangle DEF is similar to Triangle MNP. The lengths of the sides of DEF are 12, 16, 20. Find the lengths of the sides of MNP.

(12)

B
C
Acc
SCALE

Acc

Scale Factor: $3/2$
Rectangle WXYZ is similar to rectangle PQRS. If PQRS has a length of 10 meters and a width of 4 meters, find the length and width of rectangle WXYZ.

(13)

Scale Factor: $2/3$
Rectangle WXYZ is similar to rectangle PQRS. If PQRS has a length of 10 meters and a width of 4 meters, find the length and width of rectangle WXYZ.

(14)

Acc