SRT.2-4 Review
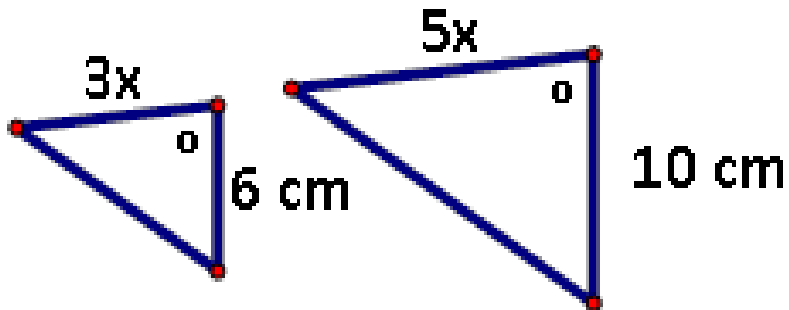
Which of the following is a similarity transformaon but is not an isometric transformaon?

A) Dilaon　　　　　B) Rotaon　　　　C) Stretch　　　　D) Translaon

Which of the following would be the criterion for establishing similarity in the two triangles?

A) AA   B) SAS

C) SSS   D) Not enough info or not similar

3x

5x

o

o

6 cm

10 cm

ΔRTS ~ ΔDFG, then the scale factor from ΔDFG to ΔRTS is:

A) $\dfrac{DF}{RT}$ B) $\dfrac{RT}{DF}$

C) RT : DF   D) cannot be determined

All isosceles triangles are similar.

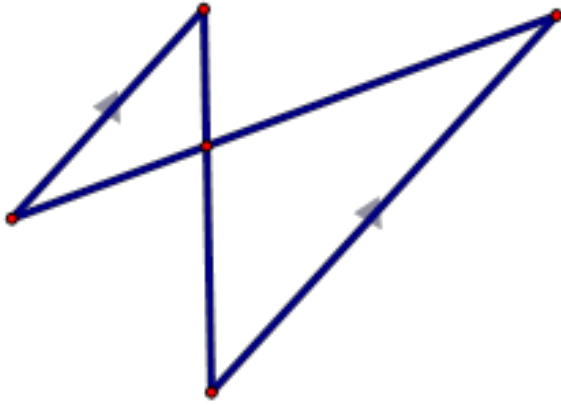
T   or   F

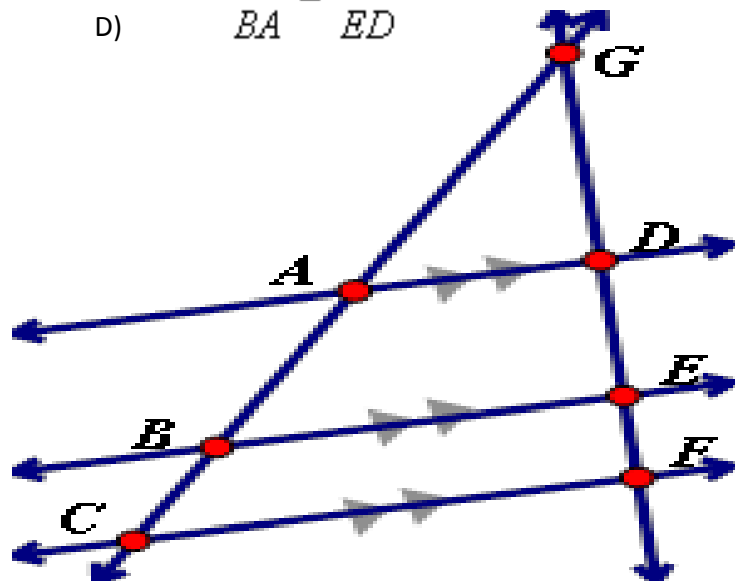All isometric transformaons are similarity transformaons.

T   or   F

Which of the following would be the criterion for establishing similarity in the two triangles?

A) AA   B) SAS

C) SSS   D) Not enough info or not similar

In the given diagram, which of the following statement is NOT true:

A) $$\dfrac{GA}{AD} = \dfrac{GB}{BE}$$

B) $$\dfrac{GD}{GE} = \dfrac{DA}{EB}$$

C) $$\dfrac{GA}{AD} = \dfrac{AC}{CF}$$
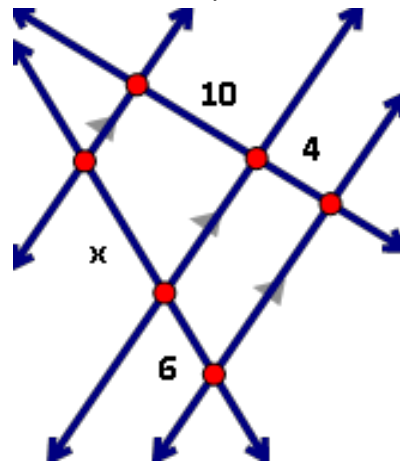
D) $$\dfrac{CG}{BA} = \dfrac{FG}{ED}$$

Which of the following would not solve for the correct value of x:

A) $\dfrac{x}{6} = \dfrac{10}{4}$

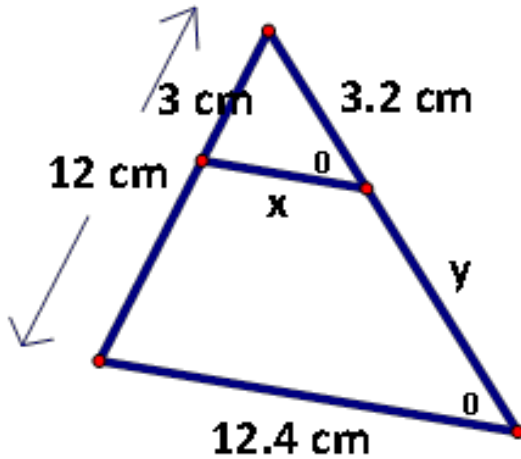B) $\dfrac{x}{x+6} = \dfrac{10}{14}$

C) $\dfrac{x}{10} = \dfrac{6}{4}$

D) $\dfrac{x+6}{10} = \dfrac{6}{4}$

If △ABC ~ △DEF, AND AB : DE is 1 : 3, then DE = 3.

T   or   F

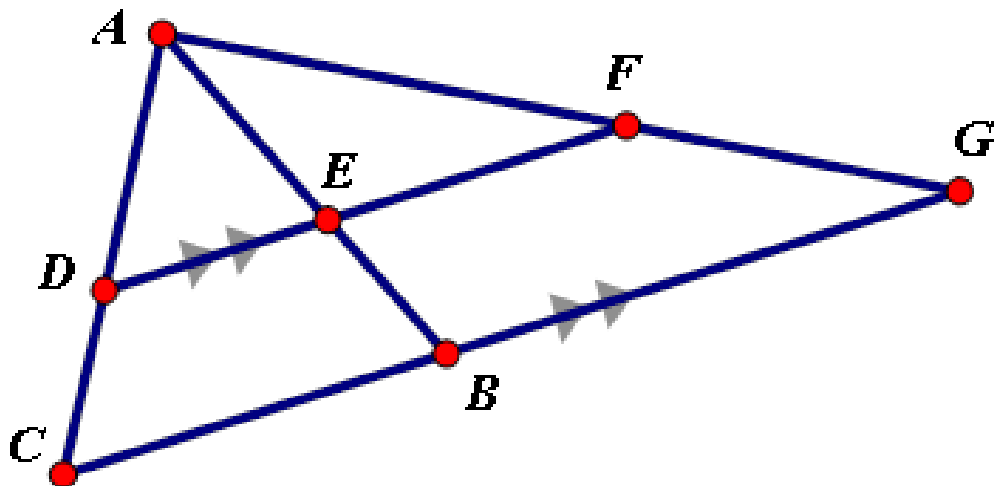Solve for the missing informaon,
given that the two triangles in each queson are SIMILAR. (2 decimals)

3 cm   3.2 cm

12 cm   0

x

y

0

12.4 cm

Complete the proporons.

$$\frac{DE}{CB} = \frac{AD}{\boxed{}}$$

$$\frac{\boxed{}}{AB} = \frac{FG}{AG}$$

A

F

E

G

D

B

C

$$D_{0.3} \circ R_{x\,axis} \circ R_{0.180^\circ}\,(\triangle ABC) = \triangle A'B'C'$$, then $\triangle ABC \sim \triangle A'B'C$.
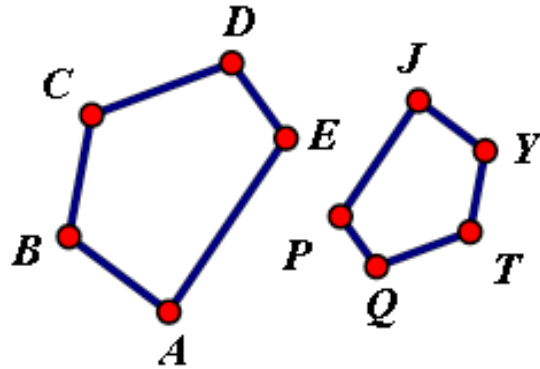
T or F

Solve – The area of a rectangle is 504 cm². If the length and the width are in a rao of 7:2.

_____ & _____

Pentagon ABCDE is similar to Pentagon JYTQP. Complete the following.

$\angle T \cong \angle$ _____

$$\frac{AB}{CD} = \frac{JY}{\boxed{}} \quad \text{_____}$$

$$\frac{8}{12} = \frac{x}{15} \quad \text{is the same proporon as} \quad \frac{x}{4} = \frac{15}{6} \quad .$$

T   or   F

If $\triangle$ABC ~ $\triangle$DEF, then $\dfrac{EF}{BC} = \dfrac{AB}{DE}$

T   or   F

Are the following pairs of triangles similar?
If they are, then name their similarity criteria. (SSS, SAS, AA)
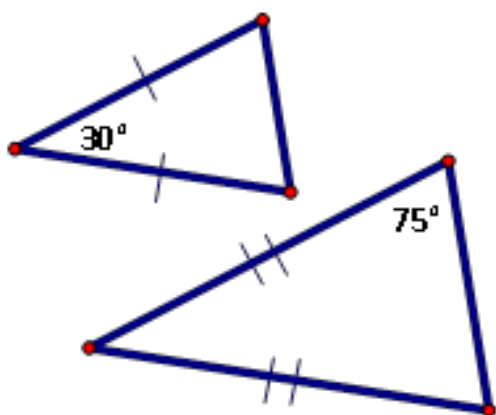
ANSWERS

1. A

2. B

3. B

4. F

5. T

6. A

7. C

8. D

9. F

10. X = 3.1

    Y = 9.6

11. AC , EB

12. T

13. X=6, 42, 12

14. ANGLE C

    TQ

15. T

16. T

17. SAS OR AA