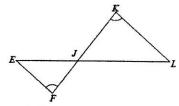
Name

2nd hour 3rd hour 4th hour 5th hour 6th hour 7th hour

Table 1	Table 3	Table 5	Table 7	
Table 2	Table 4	Table 6	Table 8	

Similar Triangles

Objective 1 I can show the triangles are s similar) based of figures	similar (or not	similarity stat	Objective 2: I can correctly state the similarity statement of two similar triangles Objective 3: I can state why two triangles are similar based on a given figure		similar based	Objective 4: I can use the proportionality implied by a pair of similar triangles to determine missing side lengths, variable values, and scale factors	
I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet



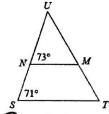
A) similar; SSS similarity
B) similar; SAS similarity
C) similar; AA similarity

D) not similar

If the triangles are similar, then complete this statement

, DJEF~DIK

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.



A) not similar

B) similar; SSS similarity

C) similar; AA similarity

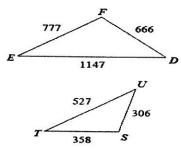
D) similar; SAS similarity

If the triangles are similar, then complete this statement

Δ*UNM*~Δ_____

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.

L73 EL71



A) similar; SAS similarity

B) similar; AA similarity

C) not similar

D) similar: SSS similarity

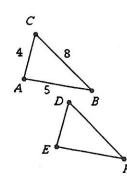
If the triangles are similar, then complete this statement

 $\Delta UTS \sim \Delta$ _____

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.

 $\frac{177}{358} + \frac{666}{306}$

sides not pape



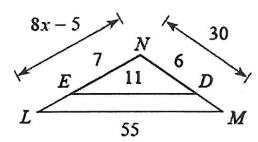
This figure is NOT drawn to scale!

We know that $\triangle ABC \sim \triangle EDF$ and we know that the scale factor from $\triangle ABC$ to $\triangle EDF$ is 3:1

Determine the missing lengths of the second triangle

$$Eb = 3$$

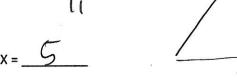
These triangles are KNOWN to be similar to each other

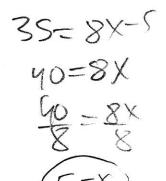


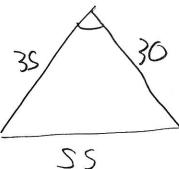
Complete the similarity statement $\triangle NML \sim \triangle \square E$

Determine the value of x (show your work)

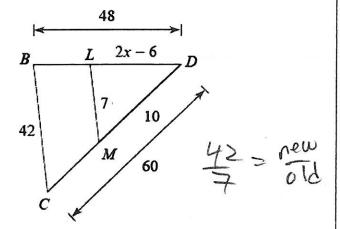






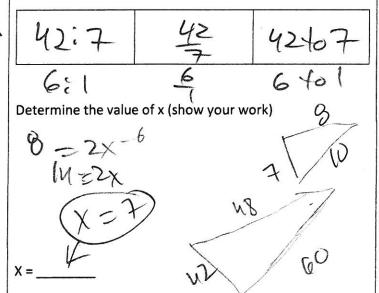


These triangles are KNOWN to be similar to each other

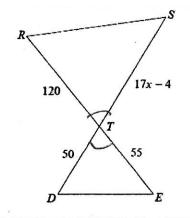


Complete the similarity statement $\Delta LMD \sim \Delta \frac{P_{CO}}{\Delta LMD}$

State the scale factor from the small triangle to the large triangle (use at least two of the three notations)



You are informed that these triangles are similar



Your math teacher informs you that this is a trick question as it stands now, and then makes the claim that the value of x could be two different values and still maintain the properties of similar triangles

WITHOUT finding the value(s) of x, briefly explain why your mathematics teacher made that claim.

120~17x-4 50~17x-

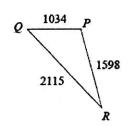
trousle l'one trongle

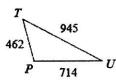
2 nd hour	3 rd hour	4 th hour		
5 th hour	6 th hour	7 th hour		

Table 1	Table 3	Table 5	Table 7
Table 2	Table 4	Table 6	Table 8

Similar Triangles

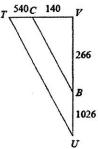
triangles are s	w that a pair of are similar (or not similarity statement of two sased on a variety similar triangles l can state why two triangles are similar batter on a given figure		imilar based	Objective 4: I can use the proportionality implied by a pair of similar triangles to determine missing side lengths, variable values, and scale factors			
I can explain how to do this to someone	Not yet	I can explain how to do this to someone	Not yet	I can explain how to do this to someone	Not yet	I can explain how to do this to someone	Not yet
else		else		else		else	





If the triangles are similar, then complete this statement

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.



A) similar; SSS similarity

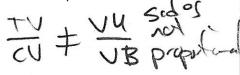
B) similar; SAS similarity

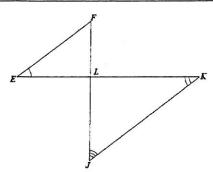
C) similar; AA similarity D) not similar

If the triangles are similar, then complete this statement

$$\Delta VTU \sim \Delta$$

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.

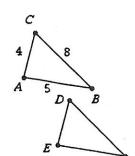




If the triangles are similar, then complete this statement

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.





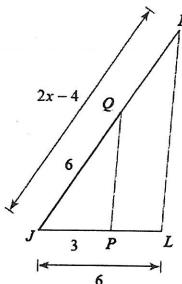
This figure is NOT drawn to scale!

We know that $\triangle ABC \sim \triangle DFE$ and we know that the scale factor from $\triangle ABC$ to $\triangle DFE$ is 1:4

Determine the missing lengths of the second triangle



These triangles are KNOWN to be similar to each other



Complete the similarity statement $\Delta QPJ \sim \Delta$

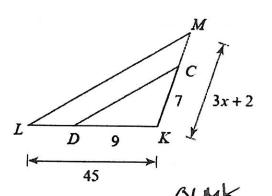
17x - 4

Determine the value of x (show your work)

x = 8

120

These triangles are KNOWN to be similar to each other



Complete the similarity statement $\triangle LMD \sim \Delta$

State the scale factor from the small triangle to the large triangle (use at least two of the three notations)

Determine the value of x (show your work)

You are informed that these triangles are similar

Your math teacher informs you that this is a trick question as it stands now, and then makes the claim that the value of x could be two different values and still maintain the properties of similar triangles

WITHOUT finding the value(s) of x, briefly explain why your mathematics teacher made that claim.

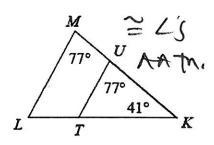
Name_

2 nd hour	3 rd hour	4th hour
5 th hour	6 th hour	7 th hour

Table 1	Table 3	Table 5	Table 7
Table 2	Table 4	Table 6	Table 8

Similar Triangles

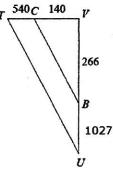
triangles are s	show that a pair of I can correctly state the gles are similar (or not ar) based on a variety I can correctly state the similarity statement of two similar triangles on		Objective 3: I can state why two triangles are similar based on a given figure		Objective 4: I can use the proportionality implied by a pair of similar triangles to determine missing side lengths, variable values, and scale factors		
I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet	I can explain how to do this to someone else	Not yet



k ... ۲.5

If the triangles are similar, then complete this statement

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.



A) similar; SSS similarity

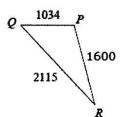
B) similar; SAS similarity

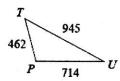
C) similar; AA similarity

(D))not similar

If the triangles are similar, then complete this statement

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.



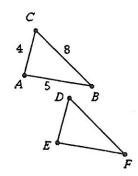


If the triangles are similar, then complete this statement

$$\Delta QPR \sim \Delta$$

If these triangles are NOT similar, then BRIEFLY explain WHY NOT.

sides - or proportion



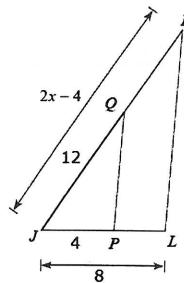
This figure is NOT drawn to scale!

We know that $\triangle ABC \sim \triangle FDE$ and we know that the scale factor from $\triangle ABC$ to $\triangle FDE$ is 10:1

Determine the missing lengths of the second triangle

$$ED = 80$$
 $EF = 50$

These triangles are KNOWN to be similar to each other

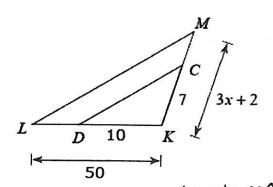


Complete the similarity statement $\Delta QPJ \sim \Delta k LJ$

Determine the value of x (show your work)

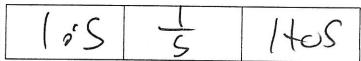
x = 14

These triangles are KNOWN to be similar to each other



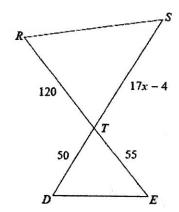
Complete the similarity statement ΔΔΔΔΦ ~Δ______

State the scale factor from the large triangle to the small triangle (use at least two of the three notations)



Determine the value of x (show your work)

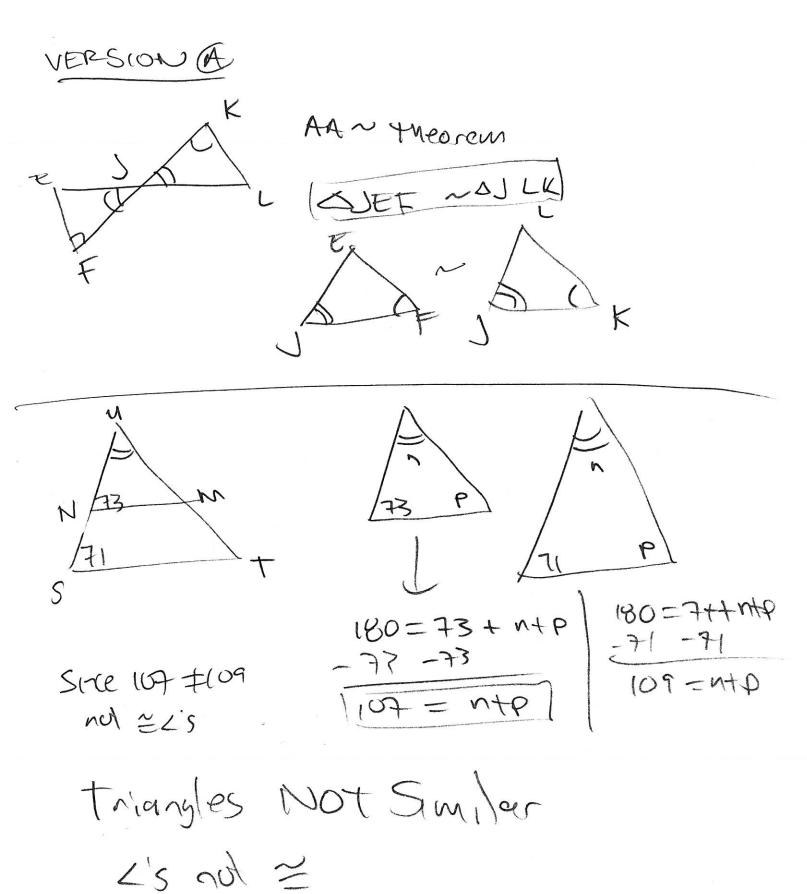
You are informed that these triangles are similar



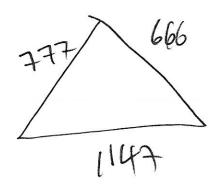
Your math teacher informs you that this is a trick question as it stands now, and then makes the claim that the value of x could be two different values and still maintain the properties of similar triangles

WITHOUT finding the value(s) of x, briefly explain why your mathematics teacher made that claim.

$$\frac{120}{SS} = \frac{17x^{-4}}{50}$$
 or $\frac{120}{S0} = \frac{17x^{-4}}{SS}$



e. gene



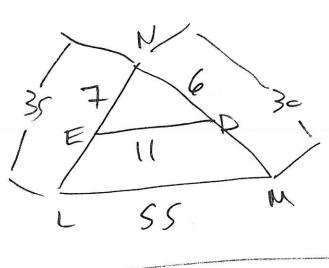
666

527

2,1704 = 2,1765

Dis not a sides not proportional

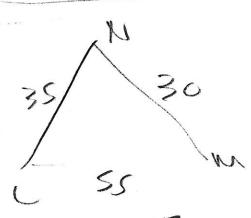
$$\frac{Df}{g} = \frac{3}{6}$$

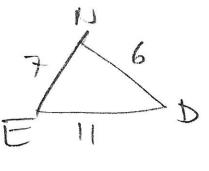


$$3S = 8x - S$$

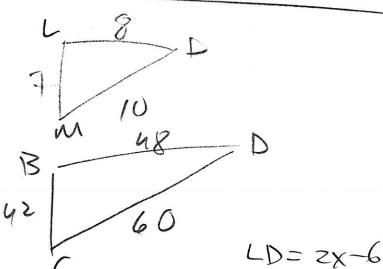
 $40 = 8x$
 $40 = 8x$

D NML ~ DNDE





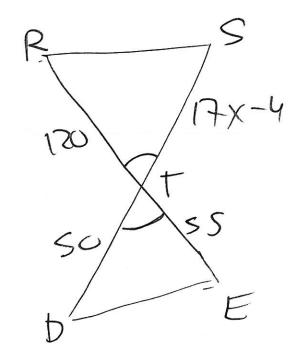
B L 8 P P 17 10 P C 60



DLMD ND BCD

$$\frac{\Delta BCD}{\Delta LMD} = \frac{48}{8} = \frac{60}{10} = \frac{42}{7} = \frac{9}{7}$$
6+01 6:1 6

LD=9 2x 6=8 2x=14



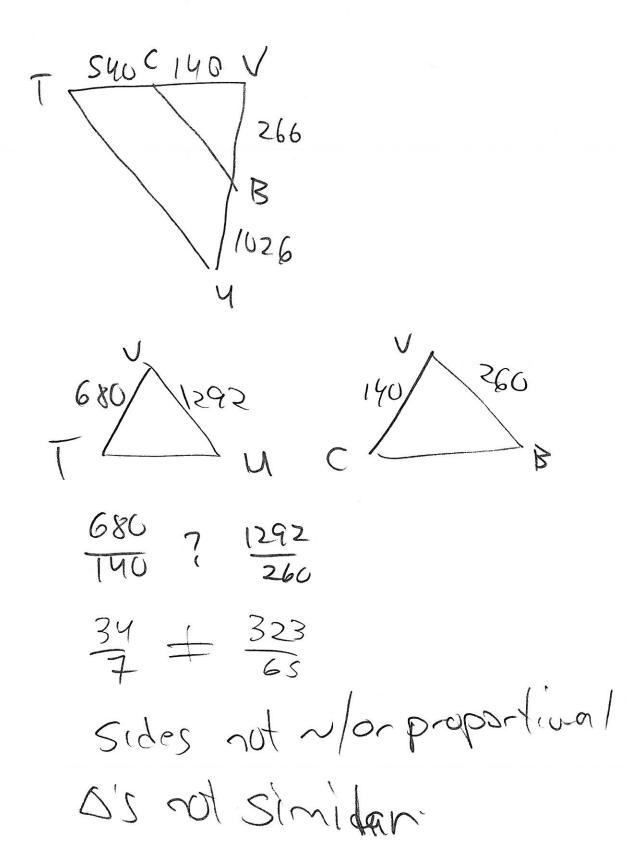
Version ()

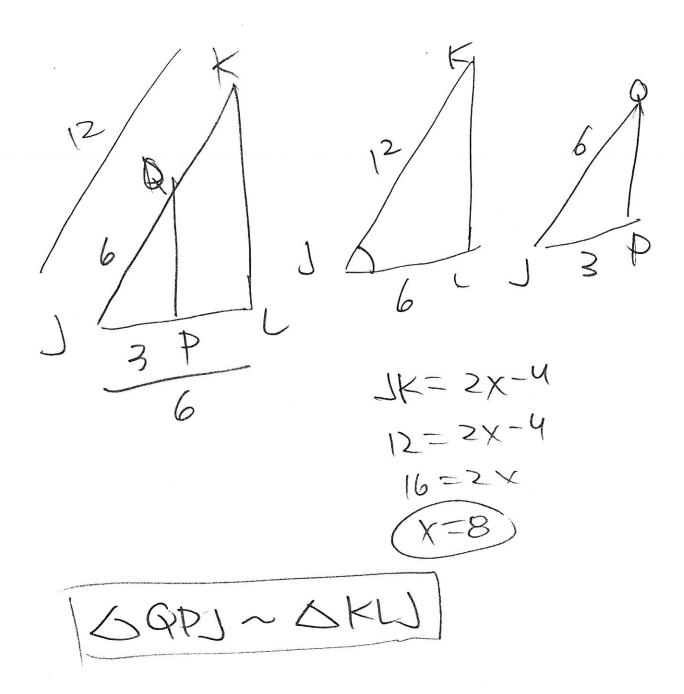
SRTS ~ SETD

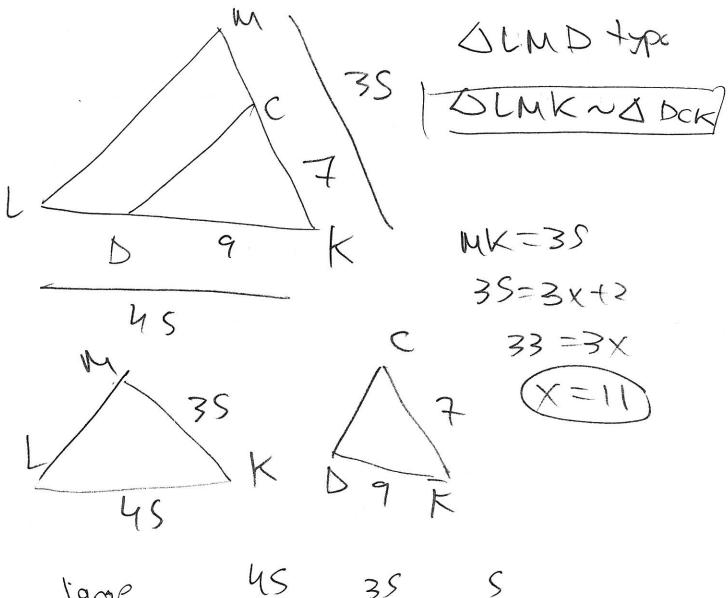
120 = 17x-4
55 = 50

Version @ 3RTS ~ DDTE 130 = 17x-4 50 = 55 Version & 1034 7 1598 7 2115 47 = 47 = 47 sides proportional >

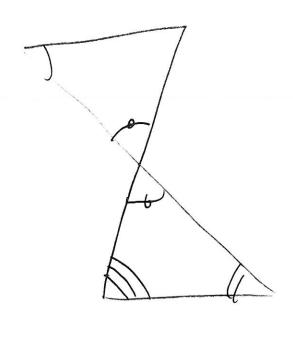
SQPR ~ STPU







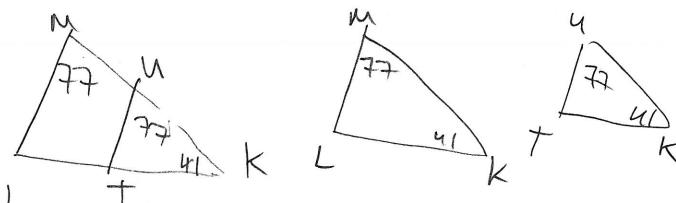
$$\frac{|agg|}{|small|} = \frac{45}{9} = \frac{35}{7} = \frac{5}{1}$$



5 not ~ boause Ls not=

$$\frac{DF}{AB} = \frac{1}{4} \rightarrow \frac{DF}{5} = \frac{1}{4} \rightarrow \frac{DF}{5} = \frac{5}{4}$$

VERSIONO



STUKNOLMK AANTheoren

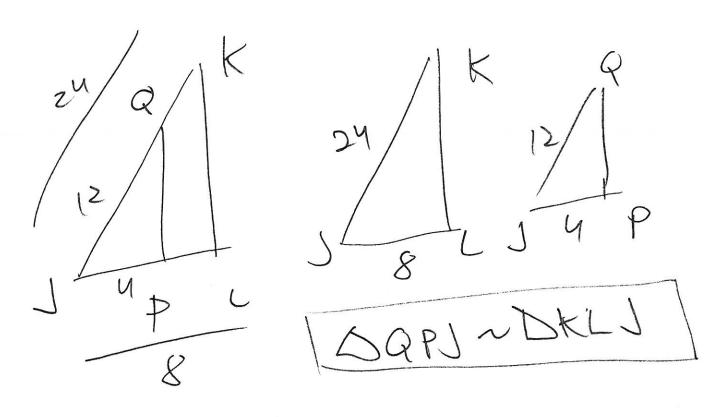
$$+\frac{540 \, \text{C}}{1293}$$
 $+\frac{680}{1293}$
 $+\frac{140}{1293}$
 $+\frac{680}{1293}$
 $+\frac{7}{1293}$
 $+\frac{7}{1293}$
 $+\frac{7}{1293}$
 $+\frac{7}{1293}$

L's not = + sides not proportional

SAS Fails

 $\frac{9}{2115} = \frac{1034}{1600} = \frac{714}{1600} = \frac{1034}{1600} = \frac{1034}{1600} = \frac{1034}{1600} = \frac{1000}{1600} = \frac{1034}{21} = \frac{1000}{21} = \frac{10$

sides not propartional



$$24 = JK$$
 $24 = 2X - 4$
 $28 = 2X$
 $X = 14$

