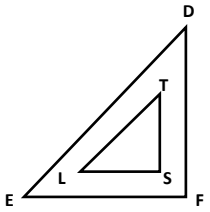
Name: _____ Date _____

Topic: *Similarity of Triangles with Similarity Proofs - Worksheet 1*

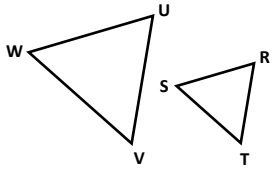
For problem number 1-4: State true or false whether the given pair of triangles is similar; for problem numbers 5-10: State which property is used to prove similarity.

1.



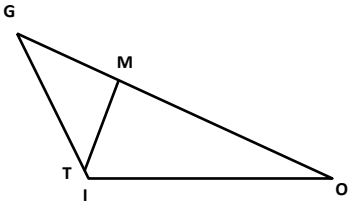
DE=45
EF=30
TL=24
LS=12
< D=< T

2.



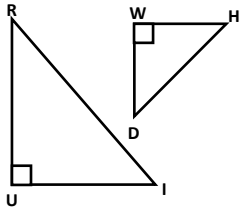
< W=< S
< U=< R

3.



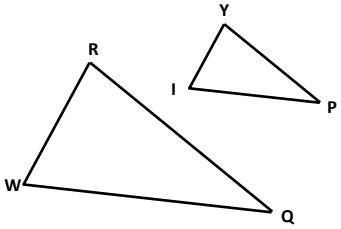
< GMT=120°
< GIO=120°

4.



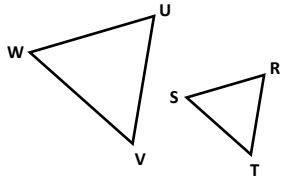
RI=28
RU=14
HD=24
WD=12
< U=< W

5.



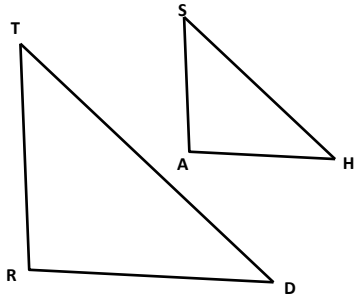
< R=< Y
< P=< Q

6.



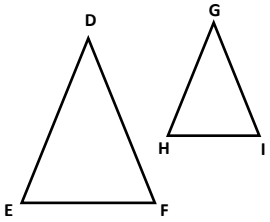
WU=10
UV=15
SR=2
RT=3
< V=< T

7.



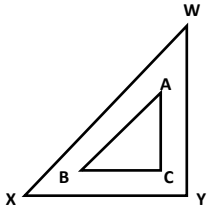
TR=40
RD=50
TD=60
SA=4
AH=5
SH=6

8.



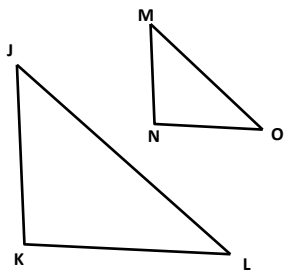
< D=40°
< E=55°
< G=40°
< H=55°

9.



< W=< A
< Y=< C

10.



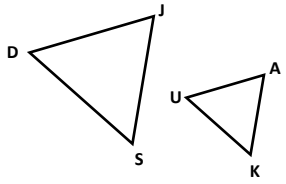
JK=16
KL=4
JL=20
MN=12
NO=3
MO=15

Name: _____ Date _____

Topic: *Similarity of Triangles with Similarity Proofs - Worksheet 2*

For problem number 1-4: State true or false whether the given pair of triangles is similar; for problem numbers 5-10: State which property is used to prove similarity.

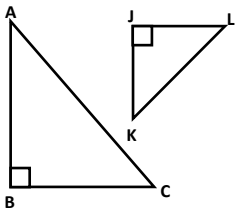
1.



<D=< U

< J=< A

2.



AC=26

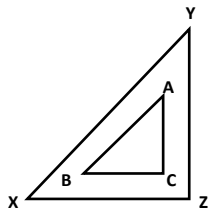
AB=13

LK=36

JK=24

< B=< J

3.



XY=32

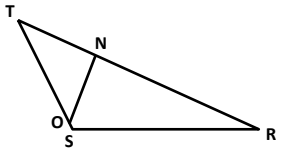
XZ=12

AB=28

BC=16

< Y=< A

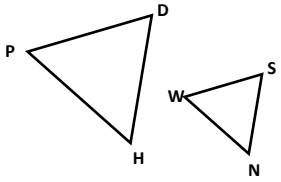
4.



< TNO=132°

< TSR=132°

5.



PD=8

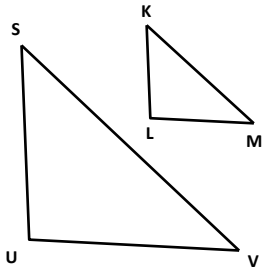
DH=20

WS=4

SN=10

< H=< N

6.



SU=35

UV=21

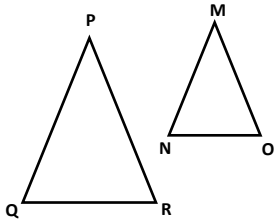
SV=14

KL=20

LM=12

KM=8

7.



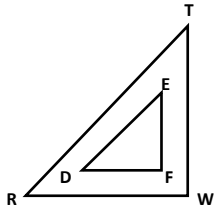
< P=30°

< Q=50°

< M=30°

< N=50°

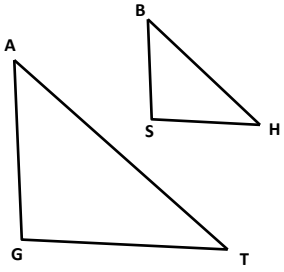
8.



< T=< E

< W=< F

9.



AG=15

GT=20

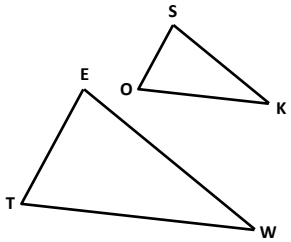
AT=25

BS=9

SH=12

BH=15

10.



< E=< S

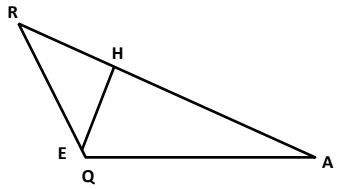
< K=< W

Name: _____ Date _____

Topic: *Similarity of Triangles with Similarity Proofs - Worksheet 3*

For problem number 1-4: State true or false whether the given pair of triangles is similar; for problem numbers 5-10: State which property is used to prove similarity.

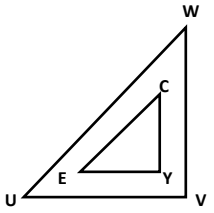
1.



$< RHE = 135^0$

$< RQA = 135^0$

2.



$WU = 36$

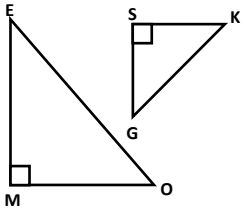
$UV = 18$

$CE = 24$

$EY = 8$

$< W =< C$

3.



$EO = 24$

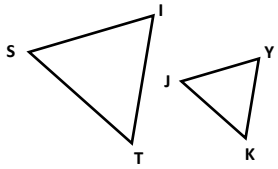
$EM = 16$

$KG = 18$

$SG = 12$

$< M =< S$

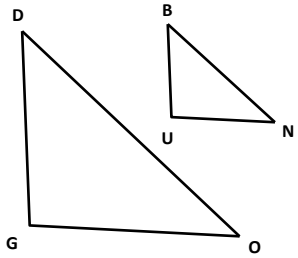
4.



$< S =< J$

$< I =< Y$

5.



$DG = 18$

$GO = 30$

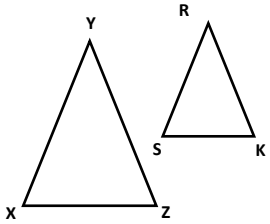
$DO = 36$

$BU = 12$

$UN = 20$

$BN = 24$

6.



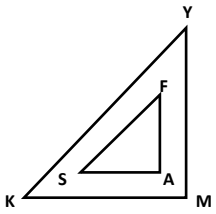
$< Y = 35^o$

$< X = 40^o$

$< R = 35^o$

$< S = 40^o$

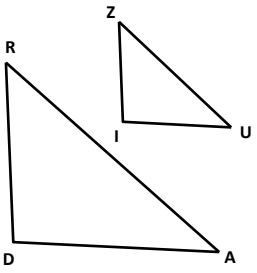
7.



$< Y =< F$

$< M =< A$

8.



$RD = 16$

$DA = 12$

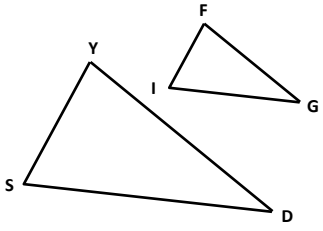
$AR = 24$

$ZI = 12$

$IU = 9$

$UZ = 18$

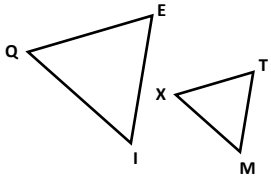
9.



$< Y =< F$

$< G =< D$

10.



$QE = 16$

$EI = 12$

$XT = 20$

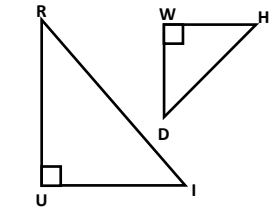
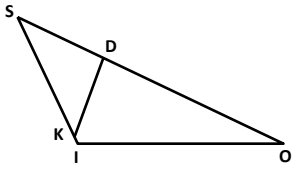
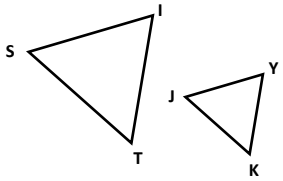
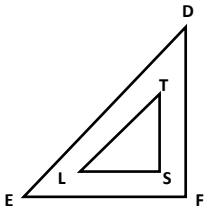
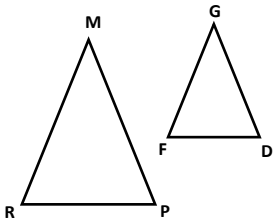
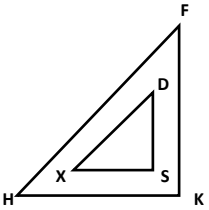
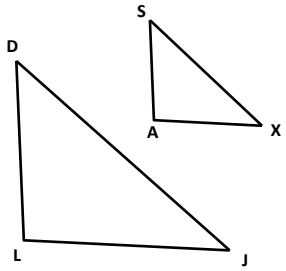
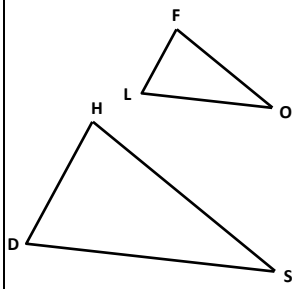
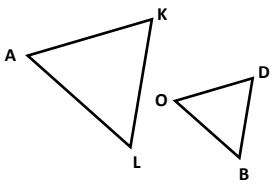
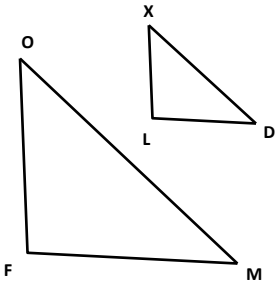
$TM = 15$

$< I =< M$

Name: _____ Date _____

Topic: *Similarity of Triangles with Similarity Proofs - Worksheet 4*

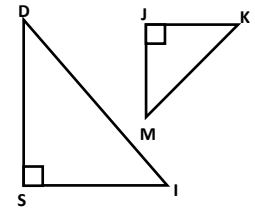
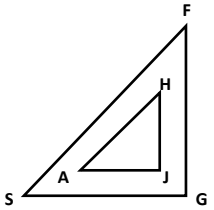
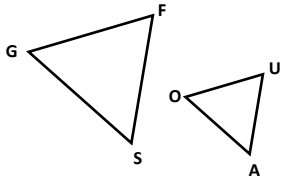
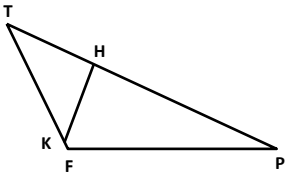
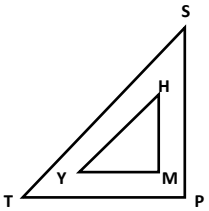
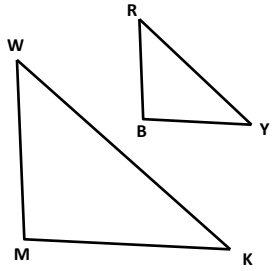
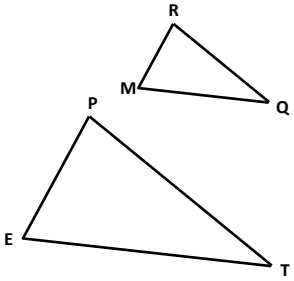
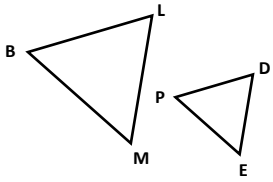
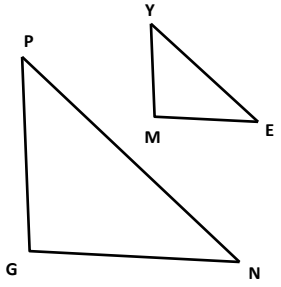
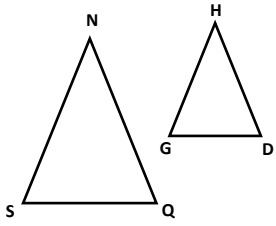
For problem number 1-4: State true or false whether the given pair of triangles is similar; for problem numbers 5-10: State which property is used to prove similarity.

1.		RI=42 RU=35 HD=28 WD=16 < U=< W	**2.**		< SDK=116° < SIO=116°
3.		< S=< J < I=< Y	**4.**		DE=32 EF=28 TL=36 LS=16 < D=< T
5.		< M=46° < R=54° < G=46° < F=54°	**6.**		< F=< D < K=< S
7.		DL=24 LJ=16 JD=36 SA=18 AX=12 XS=27	**8.**		< H=< F < O=< S
9.		AK=32 KL=20 OD=24 DB=15 < L=< B	**10.**		OF=14 FM=21 MO=28 XL=12 LD=18 DX=24

Name: _____ Date _____

Topic: *Similarity of Triangles with Similarity Proofs - Worksheet 5*

For problem number 1-4: State true or false whether the given pair of triangles is similar; for problem numbers 5-10: State which property is used to prove similarity.

1.		DI=16 DS=12 KM=20 JM=15 < S=< J	**2.**		FS=32 SG=28 HA=36 AJ=16 < F=< H
3.		< G=< O < F=< U	**4.**		< THK= 118° < TFP= 118°
5.		< S=< H < P=< M	**6.**		WM=32 MK=20 KW=36 RB=40 BY=25 XS=45
7.		< P=< R < Q=< T	**8.**		BL=18 LM=15 PD=12 DE=10 < M=< E
9.		PG=8 GN=12 NP=16 YM=6 ME=9 EY=12	**10.**		< N=48° < S=56° < H=48° < G=56°