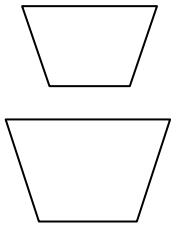
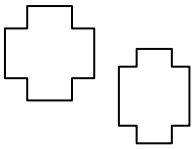
Name: _____ Date _____

Topic: Similarity - Worksheet 1

Are the following figures are similar

1  Yes No

2  Yes No

Answer the following questions dealing with similar figures

3. The sides of a triangle are 3, 7 and 9. Find the length of the longest side of a similar triangle whose shortest side is 8.

4. ΔABC ~ ΔRST, AB=6, BC=16, ST=30. Find RS?

5. At a certain time of the day, the shadow of a 7' boy is 12' long. The shadow of a tree at this same time is 14' long. How tall is the tree?

6. The sides of a triangle are 4, 10 and 5. Find the length of the longest side of a similar triangle whose shortest side is 12.

7. The sides of a triangle are 5, 14 and 7. Find the length of the longest side of a similar triangle whose shortest side is 3.

8. ΔRST ~ ΔABC, RS=6, ST=3, BC=6. Find AB?

9. At a certain time of the day, the shadow of a 14' boy is 24' long. The shadow of a tree at this same time is 30' long. How tall is the tree?

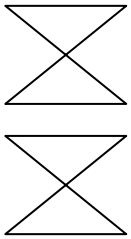
10. The sides of a triangle are 3, 12 and 14. Find the length of the longest side of a similar triangle whose shortest side is 5.

Name: _____ Date _____

Topic: Similarity - Worksheet 2

Are the following figures are similar

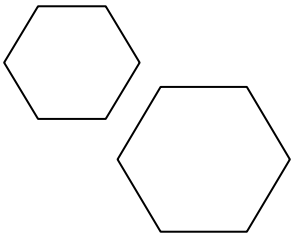
1



Yes

No

2



Yes

No

Answer the following questions dealing with similar figures

3. The sides of a triangle are 7, 9 and 11. Find the length of the longest side of a similar triangle whose shortest side is 10.

4. ΔABC ~ ΔRST, AB=8, BC=18, ST=40. Find RS?

5. At a certain time of the day, the shadow of a 5' boy is 16' long. The shadow of a tree at this same time is 10' long. How tall is the tree?

6. The sides of a triangle are 6, 14 and 3. Find the length of the longest side of a similar triangle whose shortest side is 16.

7. The sides of a triangle are 7, 16 and 9. Find the length of the longest side of a similar triangle whose shortest side is 5.

8. ΔRST ~ ΔABC, RS=8, ST=5, BC=8. Find AB?

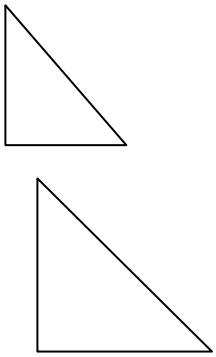
9. At a certain time of the day, the shadow of a 16' boy is 22' long. The shadow of a tree at this same time is 40' long. How tall is the tree?

10. The sides of a triangle are 7, 18and 16. Find the length of the longest side of a similar triangle whose shortest side is 9.

Name: _____ Date _____

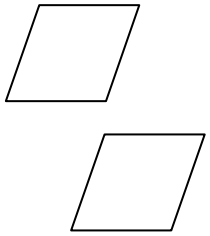
Topic: Similarity - Worksheet 3

Are the following figures are similar

1 

Yes

No

2 

Yes

No

Answer the following questions dealing with similar figures

3. The sides of a triangle are 9, 13 and 15. Find the length of the longest side of a similar triangle whose shortest side is 12.

4. ΔABC ~ ΔRST, AB=10, BC=20, ST=50. Find RS?

5. At a certain time of the day, the shadow of a 7' boy is 18' long. The shadow of a tree at this same time is 14' long. How tall is the tree?

6. The sides of a triangle are 8, 16 and 7. Find the length of the longest side of a similar triangle whose shortest side is 20.

7. The sides of a triangle are 5, 18 and 11. Find the length of the longest side of a similar triangle whose shortest side is 7.

8. ΔRST ~ ΔABC, RS=12, ST=3, BC=14. Find AB?

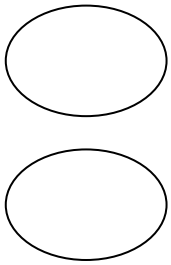
9. At a certain time of the day, the shadow of a 18' boy is 28' long. The shadow of a tree at this same time is 50' long. How tall is the tree?

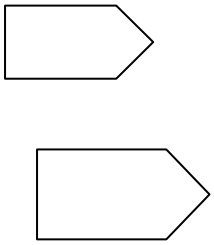
10. The sides of a triangle are 3, 20and 18. Find the length of the longest side of a similar triangle whose shortest side is 11.

Name: _____ Date _____

Topic: Similarity - Worksheet 4

Are the following figures are similar

1  Yes No

2  Yes No

Answer the following questions dealing with similar figures

3. The sides of a triangle are 11, 15 and 18. Find the length of the longest side of a similar triangle whose shortest side is 10.

4. ΔABC ~ ΔRST, AB=12, BC=24, ST=60. Find RS?

5. At a certain time of the day, the shadow of a 9' boy is 20' long. The shadow of a tree at this same time is 18' long. How tall is the tree?

6. The sides of a triangle are 4, 14 and 9. Find the length of the longest side of a similar triangle whose shortest side is 30.

7. The sides of a triangle are 7, 20 and 15. Find the length of the longest side of a similar triangle whose shortest side is 9.

8. ΔRST ~ ΔABC, RS=10, ST=5, BC=16. Find AB?

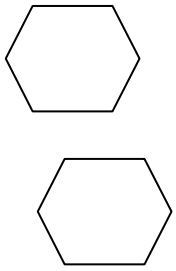
9. At a certain time of the day, the shadow of a 20' boy is 26' long. The shadow of a tree at this same time is 60' long. How tall is the tree?

10. The sides of a triangle are 2, 24 and 22. Find the length of the longest side of a similar triangle whose shortest side is 10.

Name: _____ Date _____

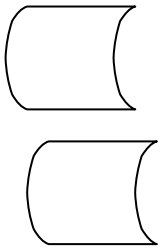
Topic: Similarity - Worksheet 5

Are the following figures are similar

1 

Yes 2.

No 2.

2 

Yes 2.

No 2.

Answer the following questions dealing with similar figures

3. The sides of a triangle are 7, 16 and 20. Find the length of the longest side of a similar triangle whose shortest side is 18.

4. ΔABC ~ ΔRST, AB=14, BC=26, ST=70. Find RS?

5. At a certain time of the day, the shadow of a 11' boy is 24' long. The shadow of a tree at this same time is 20' long. How tall is the tree?

6. The sides of a triangle are 2, 11 and 16. Find the length of the longest side of a similar triangle whose shortest side is 32.

7. The sides of a triangle are 5, 22 and 18. Find the length of the longest side of a similar triangle whose shortest side is 11.

8. ΔRST ~ ΔABC, RS=12, ST=7, BC=18. Find AB?

9. At a certain time of the day, the shadow of a 22' boy is 30' long. The shadow of a tree at this same time is 70' long. How tall is the tree?

10. The sides of a triangle are 4, 28and 30. Find the length of the longest side of a similar triangle whose shortest side is 10.