Name: _____

Date _____

Topic : _Triangular Inequalities- Worksheet 1_

Do the following:

1. In triangle JKG, an exterior angle at J measures 125°, and m<K=45°. Which is the longest side of the triangle?

2. In triangle DGH, m<D=40° and m<G=30°. Which is the longest side of the triangle?

3. In triangle NSM, an exterior angle at N measures 105°, and m<S=60°. Which is the longest side of the triangle?

4. In triangle KFH, m<K=30° and m<F=80°. Which is the longest side of the triangle?

5. In triangle DJS, m<D=30° and m<J=70°. Which is the longest side of the triangle?

6. In triangle RID, an exterior angle at R measures 75°, and m<I=40°. Which is the longest side of the triangle?

7. In triangle HJD, m<H=50° and m<J=75°. Which is the longest side of the triangle?

8. In triangle AKD, m<A=20°, and m<A > m<K. Which is the longest side of the triangle?

9. In triangle UJK, an exterior angle at U measures 80°, and m<J=50°. Which is the longest side of the triangle?

10. In triangle GJK, m<G = 55° and m<J = 55°. Which is the longest side of the triangle?

Name: _____   Date _____
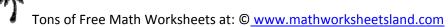
Topic : _Triangular Inequalities- Worksheet 2_

Do the following:

1. In triangle FTG, an exterior angle at F measures 120º, and m<T=30º. Which is the longest side of the triangle?

2. In triangle TYH, m<T=50º and m<Y=35º. Which is the longest side of the triangle?

3. In triangle KSG, an exterior angle at K measures 110º, and m<S=45º. Which is the longest side of the triangle?

4. In triangle SDG, m<S=35º and m<D=85º. Which is the longest side of the triangle?

5. In triangle LKD, m<L=40º and m<K=75º. Which is the longest side of the triangle?

6. In triangle SLF, an exterior angle at S measures 70º, and m<L=45º. Which is the longest side of the triangle?

7. In triangle RJF, m<R=55º and m<J=70º. Which is the longest side of the triangle?

8. In triangle WES, m<W=45º, and m<W > m<E. Which is the longest side of the triangle?

9. In triangle LAO, an exterior angle at L measures 80º, and m<A=50º. Which is the longest side of the triangle?

10. In triangle DJA, m<D = 40º and m<J = 40º. Which is the longest side of the triangle?

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Name: _____   Date _____

Topic : _Triangular Inequalities- Worksheet 3_

Do the following:

1. In triangle EKS, an exterior angle at E measures 125º, and m<K=40º. Which is the longest side of the triangle?

2. In triangle FEJ, m<F=65º and m<E=40º. Which is the longest side of the triangle?

3. In triangle SLF, an exterior angle at S measures 115º, and m<L=25º. Which is the longest side of the triangle?

4. In triangle FJN, m<F=55º and m<J=65º. Which is the longest side of the triangle?

5. In triangle SKD, m<S=60º and m<K=85º. Which is the longest side of the triangle?

6. In triangle SKV, an exterior angle at S measures 80º, and m<L=35º. Which is the longest side of the triangle?

7. In triangle EJT, m<E=75º and m<J=65º. Which is the longest side of the triangle?

8. In triangle LSO, m<L=15º, and m<L > m<S. Which is the longest side of the triangle?

9. In triangle AOD, an exterior angle at A measures 65º, and m<O=30º. Which is the longest side of the triangle?

10. In triangle VCM, m<V = 20º and m<C = 60º. Which is the longest side of the triangle?

Name: _____   Date _____

Topic : _Triangular Inequalities- Worksheet 4_

Do the following:

1. In triangle MFK, an exterior angle at M measures 130º, and m<F=35º. Which is the longest side of the triangle?

2. In triangle KXL, m<K=35º and m<X=65º. Which is the longest side of the triangle?

3. In triangle TIK, an exterior angle at T measures 60º, and m<I=15º. Which is the longest side of the triangle?

4. In triangle MFL, m<M=85º and m<F=35º. Which is the longest side of the triangle?

5. In triangle LDK, m<L=45º and m<D=50º. Which is the longest side of the triangle?

6. In triangle RDB, an exterior angle at R measures 60º, and m<D=45º. Which is the longest side of the triangle?

7. In triangle DKG, m<D=80º and m<K=55º. Which is the longest side of the triangle?

8. In triangle DER, m<D=30º, and m<D > m<E. Which is the longest side of the triangle?

9. In triangle HMF, an exterior angle at H measures 100º, and m<M=70º. Which is the longest side of the triangle?

10. In triangle GKY, m<G = 60º and m<K = 50º. Which is the longest side of the triangle?

Name: _____   Date _____

Topic : _Triangular Inequalities- Worksheet 5_

Do the following:

1. In triangle LWK, an exterior angle at L measures 125º, and m<W=45º. Which is the longest side of the triangle?

2. In triangle HDY, m<H=65º and m<D=25º. Which is the longest side of the triangle?

3. In triangle UKM, an exterior angle at U measures 65º, and m<I=30º. Which is the longest side of the triangle?

4. In triangle ALR, m<A=55º and m<L=85º. Which is the longest side of the triangle?

5. In triangle TKY, m<T=35º and m<K=75º. Which is the longest side of the triangle?

6. In triangle FKT, an exterior angle at F measures 95º, and m<K=35º. Which is the longest side of the triangle?

7. In triangle SAL, m<S=60º and m<A=65º. Which is the longest side of the triangle?

8. In triangle YMH, m<Y=40º, and m<Y > m<H. Which is the longest side of the triangle?

9. In triangle RMF, an exterior angle at R measures 90º, and m<M=60º. Which is the longest side of the triangle?

10. In triangle SLF, m<S = 50º and m<L = 60º. Which is the longest side of the triangle?