

# Triangle Inequality of Angles

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Order each triangle's angles from largest to smallest.

1)

For  $\triangle ABC$

$$AB = 17 \text{ yd}$$

$$BC = 23 \text{ yd}$$

$$CA = 9 \text{ yd}$$

\_\_\_\_\_

2)

For  $\triangle XYZ$

$$XY = 40 \text{ km}$$

$$YZ = 68 \text{ km}$$

$$ZX = 23 \text{ km}$$

\_\_\_\_\_

3)

For  $\triangle PQR$

$$PQ = 39 \text{ in}$$

$$QR = 42 \text{ in}$$

$$RP = 20 \text{ in}$$

\_\_\_\_\_

4)

For  $\triangle EFG$

$$EF = 38 \text{ m}$$

$$FG = 56 \text{ m}$$

$$GE = 29 \text{ m}$$

\_\_\_\_\_

Order each triangle's angles from smallest to largest.

1)

For  $\triangle XYZ$

$$XY = 46 \text{ ft}$$

$$YZ = 39 \text{ ft}$$

$$ZX = 21 \text{ ft}$$

\_\_\_\_\_

2)

For  $\triangle ABC$

$$AB = 33 \text{ cm}$$

$$BC = 19 \text{ cm}$$

$$CA = 23 \text{ cm}$$

\_\_\_\_\_

3)

For  $\triangle PQR$

$$PQ = 50 \text{ mm}$$

$$QR = 47 \text{ mm}$$

$$RP = 36 \text{ mm}$$

\_\_\_\_\_

4)

For  $\triangle JKQ$

$$JK = 11 \text{ yd}$$

$$KQ = 8 \text{ yd}$$

$$QJ = 14 \text{ yd}$$

\_\_\_\_\_

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1)

For  $\triangle ABC$

$$AB = 17 \text{ yd}$$

$$BC = 23 \text{ yd}$$

$$CA = 9 \text{ yd}$$

$$\underline{\angle A, \angle C, \angle B}$$

2)

For  $\triangle XYZ$

$$XY = 40 \text{ km}$$

$$YZ = 68 \text{ km}$$

$$ZX = 23 \text{ km}$$

$$\underline{\angle X, \angle Z, \angle Y}$$

3)

For  $\triangle PQR$

$$PQ = 39 \text{ in}$$

$$QR = 42 \text{ in}$$

$$RP = 20 \text{ in}$$

$$\underline{\angle P, \angle R, \angle Q}$$

4)

For  $\triangle EFG$

$$EF = 38 \text{ m}$$

$$FG = 56 \text{ m}$$

$$GE = 29 \text{ m}$$

$$\underline{\angle E, \angle G, \angle F}$$

Order each triangle's angles from smallest to largest.

1)

For  $\triangle XYZ$

$$XY = 46 \text{ ft}$$

$$YZ = 39 \text{ ft}$$

$$ZX = 21 \text{ ft}$$

$$\underline{\angle Y, \angle X, \angle Z}$$

2)

For  $\triangle ABC$

$$AB = 33 \text{ cm}$$

$$BC = 19 \text{ cm}$$

$$CA = 23 \text{ cm}$$

$$\underline{\angle A, \angle B, \angle C}$$

3)

For  $\triangle PQR$

$$PQ = 50 \text{ mm}$$

$$QR = 47 \text{ mm}$$

$$RP = 36 \text{ mm}$$

$$\underline{\angle Q, \angle P, \angle R}$$

4)

For  $\triangle JKQ$

$$JK = 11 \text{ yd}$$

$$KQ = 8 \text{ yd}$$

$$QJ = 14 \text{ yd}$$

$$\underline{\angle J, \angle Q, \angle K}$$