

Triangle Inequality of Angles

Name: _____

Date: _____

Order each triangle's angles from largest to smallest.

- 1) For $\triangle POQ$
PO = 35 cm
OQ = 29 cm
QP = 14 cm

- 2) For $\triangle EFG$
EF = 19 m
FG = 38 m
GE = 40 m

- 3) For $\triangle PQR$
PQ = 15 km
QR = 35 km
RP = 41 km

- 4) For $\triangle AOB$
AO = 38 ft
OB = 56 ft
BA = 29 ft

Order each triangle's angles from smallest to largest.

- 1) For $\triangle XYZ$
XY = 49 in
YZ = 60 in
ZX = 21 in

- 2) For $\triangle ABC$
AB = 38 mm
BC = 42 mm
CA = 29 mm

- 3) For $\triangle PQR$
PQ = 45 yd
QR = 38 yd
RP = 29 yd

- 4) For $\triangle JKQ$
JK = 10 m
KQ = 6 m
QJ = 15 m

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Order each triangle's angles from largest to smallest.

1)

For $\triangle POQ$

$$PO = 35 \text{ cm}$$

$$OQ = 29 \text{ cm}$$

$$QP = 14 \text{ cm}$$

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

2)

For $\triangle EFG$

$$EF = 19 \text{ m}$$

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

$$GE = 40 \text{ m}$$

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

3)

For $\triangle PQR$

$$PQ = 15 \text{ km}$$

$$QR = 35 \text{ km}$$

$$RP = 41 \text{ km}$$

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

4)

For $\triangle AOB$

$$AO = 38 \text{ ft}$$

$$OB = 56 \text{ ft}$$

$$BA = 29 \text{ ft}$$

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

Order each triangle's angles from smallest to largest.

1)

For $\triangle XYZ$

$$XY = 49 \text{ in}$$

$$YZ = 60 \text{ in}$$

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

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

2)

For $\triangle ABC$

$$AB = 38 \text{ mm}$$

$$BC = 42 \text{ mm}$$

$$CA = 29 \text{ mm}$$

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

3)

For $\triangle PQR$

$$PQ = 45 \text{ yd}$$

$$QR = 38 \text{ yd}$$

$$RP = 29 \text{ yd}$$

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

4)

For $\triangle JKQ$

$$JK = 10 \text{ m}$$

$$KQ = 6 \text{ m}$$

$$QJ = 15 \text{ m}$$

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