SSS Criterion – Two triangles are similar if all 3 sides are proportional.

SAS Criterion – Two triangles are similar if they have one congruent angle and the 2 sides that form the angle are proportional.



**16 ÷ 12 = 1.333…**

**12 ÷ 9 = 1.333…**

**8 ÷ 6 = 1.333…**

**Yes these triangles are similar by SSS.**



**20 ÷ 16 = 1.25**

**22 ÷ 18 = 1.222…**

**25 ÷ 20 = 1.25**

**No these triangles are not similar because not all sides are proportional.**



**18 ÷ 4 = 4.5**

**12 ÷ 3 = 4**

**No these triangles are not similar because not all sides are proportional.**



**8 ÷ 4.8 = 1.666…**

**7 ÷ 4.2 = 1.666…**

**Yes these triangles are similar by SAS.**



**6 ÷ 3 = 2**

**5 ÷ 2.7 = 1.85**

**4 ÷ 2 = 2**

**No these triangles are not similar because not all sides are proportional.**



**9.35 ÷ 8.5 = 1.1**

**6.05 ÷ 5.5 = 1.1**

**5.5 ÷ 5 = 1.1**

**Yes these triangles are similar by SSS.**



**11.66 ÷ 4.6 = 2.5348…**

**10.58 ÷ 5.3 = 1.996…**

**No these triangles are not similar because not all sides are proportional.**



**10.65 ÷ 7.1 = 1.5**

**9 ÷ 6 = 1.5**

**Yes these triangles are similar by SAS.**



**20.5 ÷ 8.2 = 2.5**

**18.75 ÷ 7.5 = 2.5**

**Yes these triangles are similar by SAS.**