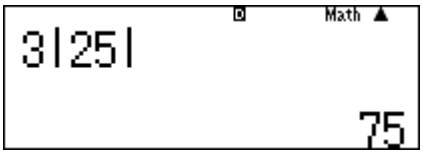
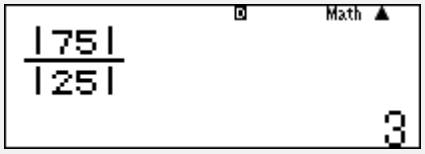
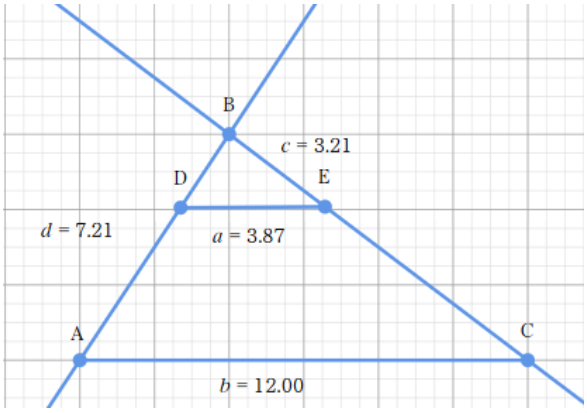
Module 3 : Similarity

Part A – Dilation

A dilation moves a point to a new point along a ray so that the distance is $r\|OP\| = \|OP'\|$. Where r is a constant. 3 Abs 2 5 =	
To find the transformation or the scale factor divide the post image from the pre image $r = \frac{\|OP'\|}{\|OP\|}$. Abs 7 5 ▶ Abs 2 5 =	
In the picture to the right find the missing lengths in for ΔDBE and ΔABC. Given $\overline{AB} = d = 7.21, \overline{BE} = c = 3.21, \overline{DE} = a = 3.87$ and $\overline{AC} = b = 12$	

Find the scale factor r=0.3225.

Abs 3 • 8 7 ▶ ▶ ⏎ Abs 1 2 = S⇔D
0 • 3 2 2 5 × Abs 7 • 2 1 ▶ =
⏎ Abs 3 • 2 1 ▼ 0 • 3 2 5 = S⇔D