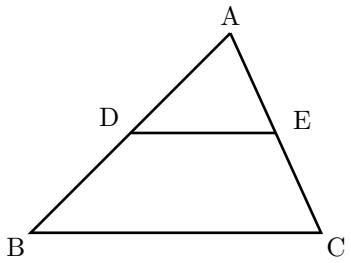
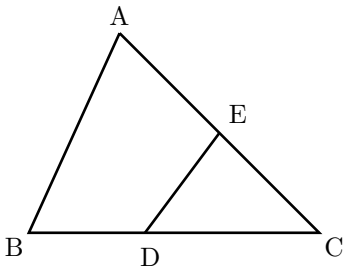
反射テスト　面積比　三角形&四角形 in 三角形　01

1.　△ABC に対する面積の **割合** を書き込め. (S 級 1 分, A 級 1 分 30 秒, B 級 2 分, C 級 4 分)

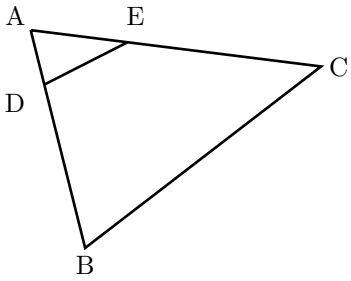
(1)　AD : DB = 1 : 1 ,　AE : EC = 1 : 1



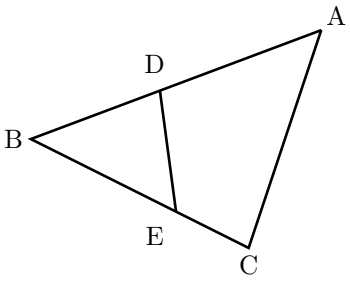
(2)　BD : DC = 2 : 3 ,　AE : EC = 1 : 1



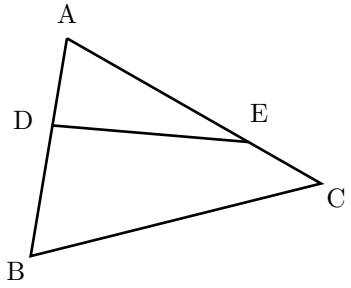
(3)　AE : EC = 1 : 2 ,　AD : DB = 1 : 3



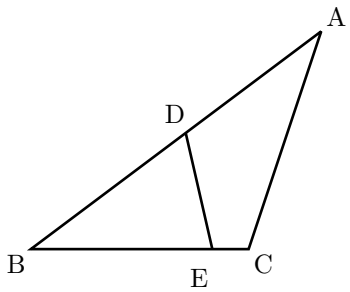
(4)　AD : DB = 5 : 4 ,　BE : EC = 2 : 1



(5)　AD : DB = 2 : 3 ,　AE : EC = 5 : 2

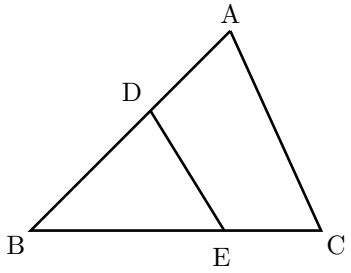


(6)　AD : DB = 7 : 8 ,　BE : EC = 5 : 1

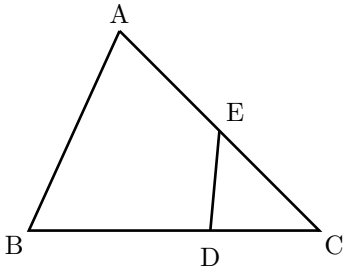


2.　△ABC に対する面積の **割合** を書き込め. (S 級 1 分 10 秒, A 級 1 分 30 秒, B 級 2 分, C 級 4 分)

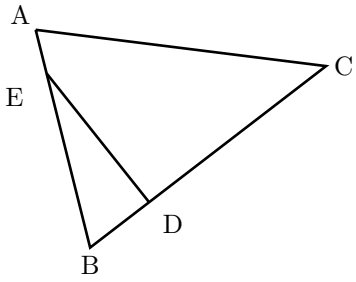
(1)　AD : DB = 2 : 3 ,　BE : EC = 2 : 1



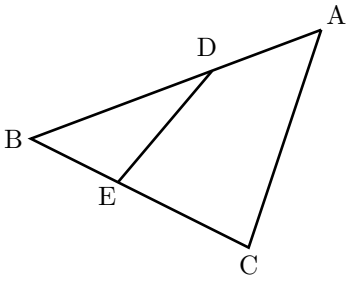
(2)　BD : DC = 5 : 3 ,　AE : EC = 1 : 1



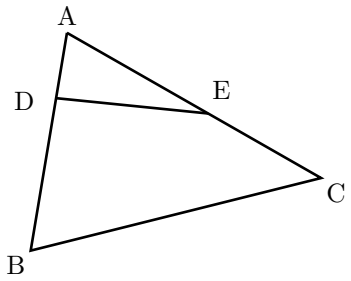
(3)　BD : DC = 1 : 4 ,　AE : EB = 1 : 5



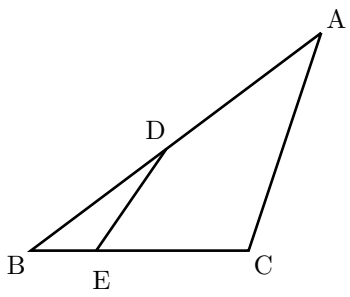
(4)　AD : DB = 3 : 5 ,　BE : EC = 2 : 3



(5)　AD : DB = 3 : 7 ,　AE : EC = 5 : 4



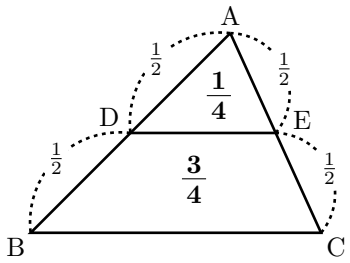
(6)　AD : DB = 8 : 7 ,　BE : EC = 3 : 7



反射テスト　面積比　三角形&四角形 in 三角形　01　解答解説

1.　△ABC に対する面積の **割合** を書き込め. (S 級 1 分, A 級 1 分 30 秒, B 級 2 分, C 級 4 分)

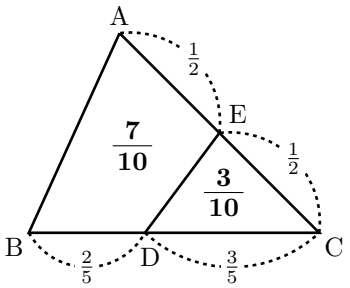
(1)　AD : DB = 1 : 1 ,　AE : EC = 1 : 1



△ADE : △ABC = $\left(\frac{1}{2}\cdot\frac{1}{2}\right) : 1 = \frac{1}{4} : 1$

⇒　台形 DBCE = $1 - \frac{1}{4} = \frac{3}{4}$

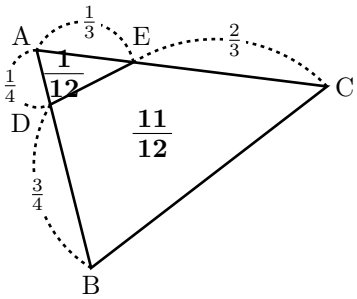
(2)　BD : DC = 2 : 3 ,　AE : EC = 1 : 1



△ADE : △ABC = $\left(\frac{3}{5}\cdot\frac{1}{2}\right) : 1 = \frac{3}{10} : 1$

⇒　四角形 EABD = $1 - \frac{3}{10} = \frac{7}{10}$

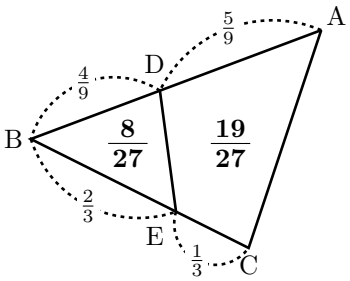
(3)　AE : EC = 1 : 2 ,　AD : DB = 1 : 3



△ADE : △ABC = $\left(\frac{1}{4}\cdot\frac{1}{3}\right) : 1 = \frac{1}{12} : 1$

⇒　四角形 DBCE = $1 - \frac{1}{12} = \frac{11}{12}$

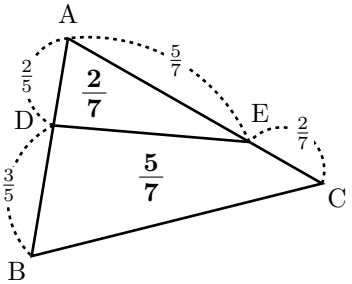
(4)　AD : DB = 5 : 4 ,　BE : EC = 2 : 1



△ADE : △ABC = $\left(\frac{4}{9}\cdot\frac{2}{3}\right) : 1 = \frac{8}{27} : 1$

⇒　四角形 ECAD = $1 - \frac{8}{27} = \frac{19}{27}$

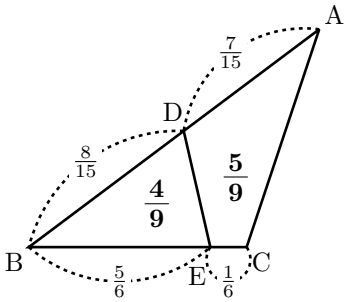
(5)　AD : DB = 2 : 3 ,　AE : EC = 5 : 2



△ADE : △ABC = $\left(\frac{2}{5}\cdot\frac{5}{7}\right) : 1 = \frac{2}{7} : 1$

⇒　四角形 DBCE = $1 - \frac{2}{7} = \frac{5}{7}$

(6)　AD : DB = 7 : 8 ,　BE : EC = 5 : 1

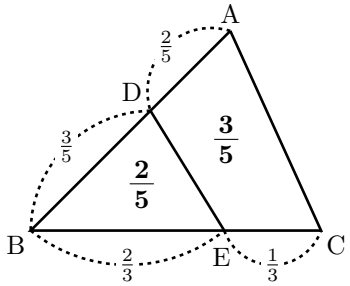


△ADE : △ABC = $\left(\frac{8}{15}\cdot\frac{5}{6}\right) : 1 = \frac{4}{9} : 1$

⇒　四角形 ECADDBCE = $1 - \frac{4}{9} = \frac{5}{9}$

2.　△ABC に対する面積の **割合** を書き込め.（S 級 1 分 10 秒, A 級 1 分 30 秒, B 級 2 分, C 級 4 分）

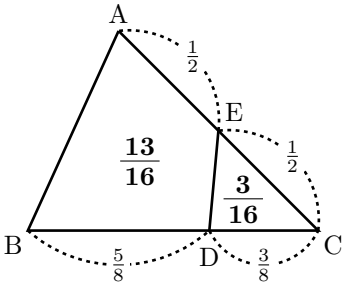
(1)　AD : DB = 2 : 3 ,　BE : EC = 2 : 1



△ADE : △ABC = $\left(\frac{3}{5}\cdot\frac{2}{3}\right) : 1 = \frac{2}{5} : 1$

⇒　四角形 ECAD = $1 - \frac{2}{5} = \frac{3}{5}$

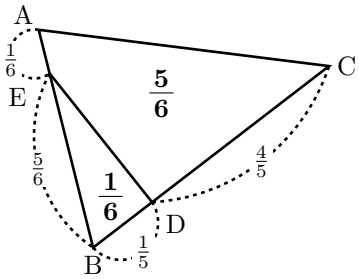
(2)　BD : DC = 5 : 3 ,　AE : EC = 1 : 1



△ADE : △ABC = $\left(\frac{3}{8}\cdot\frac{1}{2}\right) : 1 = \frac{3}{16} : 1$

⇒　四角形 EABD = $1 - \frac{3}{16} = \frac{13}{16}$

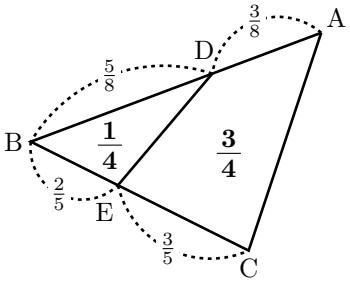
(3)　BD : DC = 1 : 4 ,　AE : EB = 1 : 5



△ADE : △ABC = $\left(\frac{1}{5}\cdot\frac{5}{6}\right) : 1 = \frac{1}{6} : 1$

⇒　四角形 DCAE = $1 - \frac{1}{6} = \frac{5}{6}$

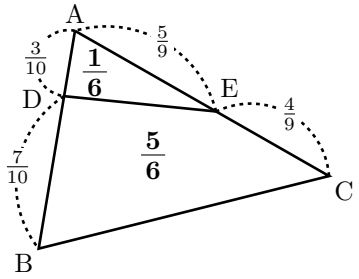
(4)　AD : DB = 3 : 5 ,　BE : EC = 2 : 3



△ADE : △ABC = $\left(\frac{5}{8}\cdot\frac{2}{5}\right) : 1 = \frac{1}{4} : 1$

⇒　四角形 ECAD = $1 - \frac{1}{4} = \frac{3}{4}$

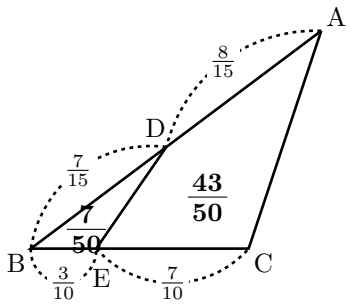
(5)　AD : DB = 3 : 7 ,　AE : EC = 5 : 4



△ADE : △ABC = $\left(\frac{3}{10}\cdot\frac{5}{9}\right) : 1 = \frac{1}{6} : 1$

⇒　四角形 DBCE = $1 - \frac{1}{6} = \frac{5}{6}$

(6)　AD : DB = 8 : 7 ,　BE : EC = 3 : 7



△ADE : △ABC = $\left(\frac{7}{15}\cdot\frac{3}{10}\right) : 1 = \frac{7}{50} : 1$

⇒　四角形 ECAD = $1 - \frac{7}{50} = \frac{43}{50}$