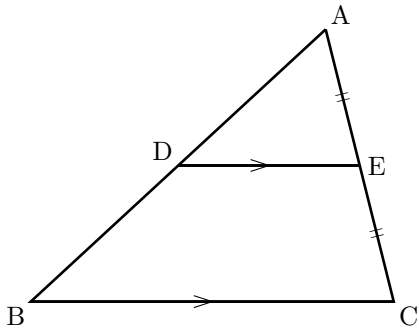


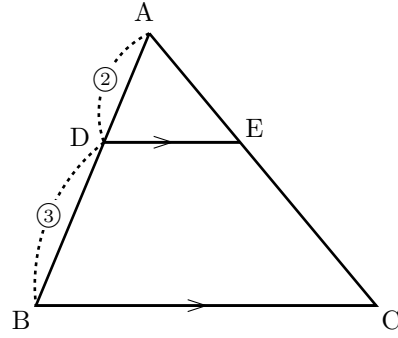
反射テスト 相似と面積比 三角形と平行線 01

1. $\triangle ABC$ に対する面積の割合を図の中に書き込め。(S級 40秒, A級 55秒, B級 1分50秒, C級 2分50秒)

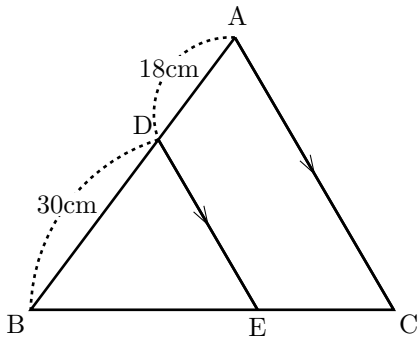
(1)



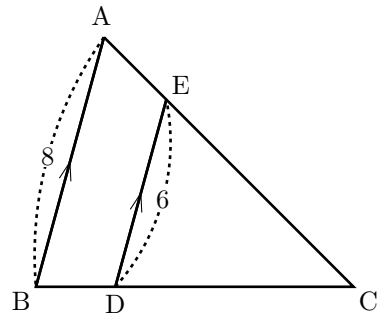
(2)



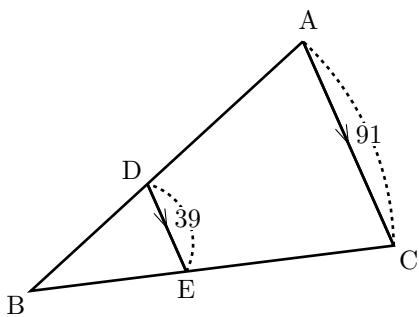
(3)



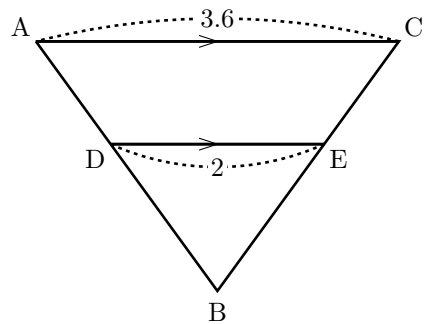
(4)



(5)

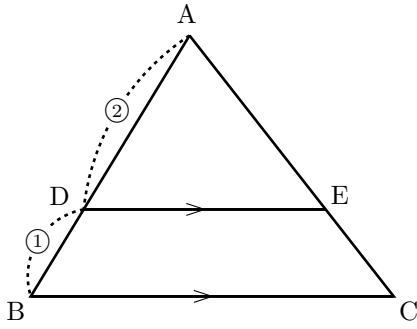


(6)

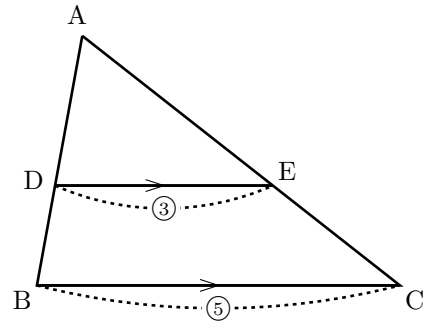


2. $\triangle ABC$ に対する面積の割合を図の中書き込め。(S級 40秒, A級 55秒, B級 1分 50秒, C級 2分 50秒)

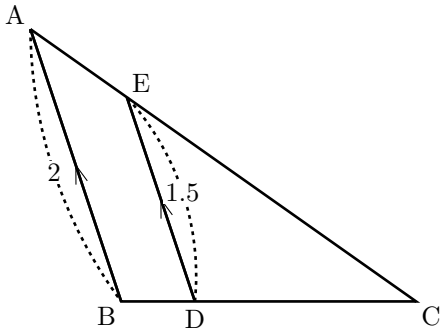
(1)



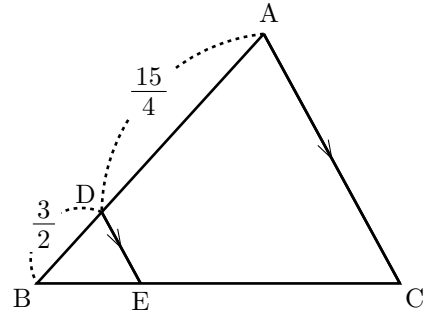
(2)



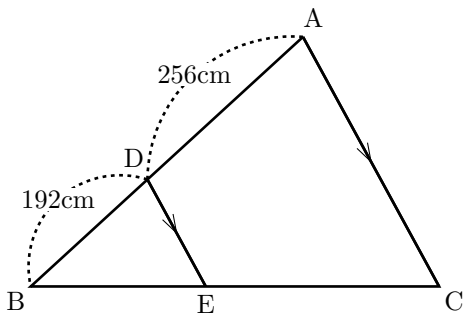
(3)



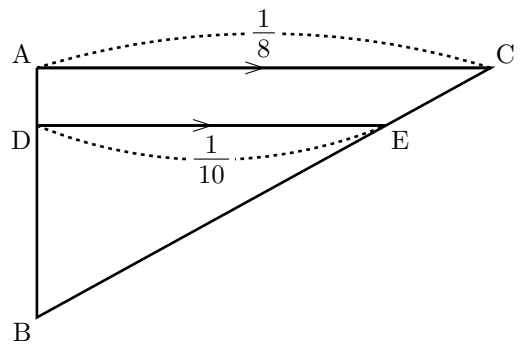
(4)



(5)



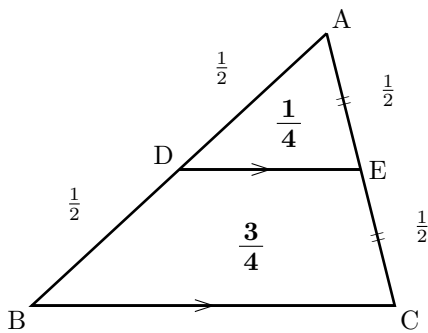
(6)



反射テスト 相似と面積比 三角形と平行線 01 解答解説

1. $\triangle ABC$ に対する面積の割合を図の中に書き込め。(S級40秒, A級55秒, B級1分50秒, C級2分50秒)

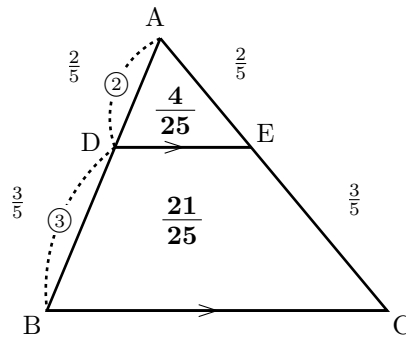
(1)



$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$1 - \frac{1}{4} = \frac{3}{4}$$

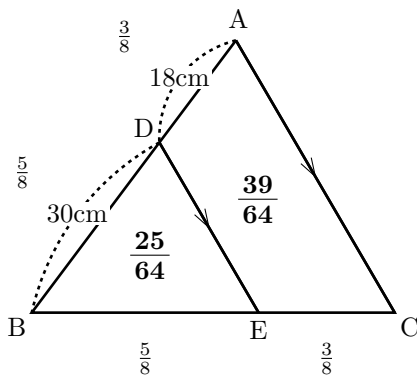
(2)



$$\frac{2}{5} \times \frac{2}{5} = \frac{4}{25}$$

$$1 - \frac{4}{25} = \frac{21}{25}$$

(3)

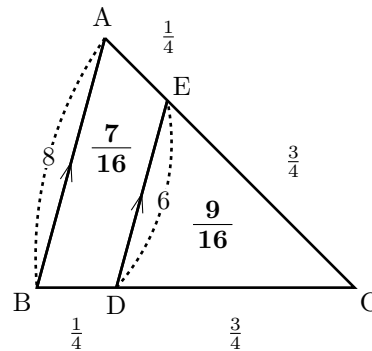


$$30 : 18 = 5 : 3$$

$$\frac{5}{8} \times \frac{5}{8} = \frac{25}{64}$$

$$1 - \frac{25}{64} = \frac{39}{64}$$

(4)

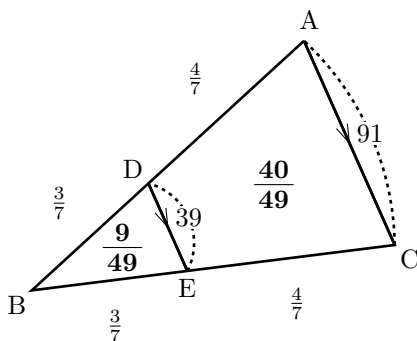


$$8 : 6 = 4 : 3 \Rightarrow BD : DC = 1 : 3$$

$$\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

$$1 - \frac{9}{16} = \frac{7}{16}$$

(5)

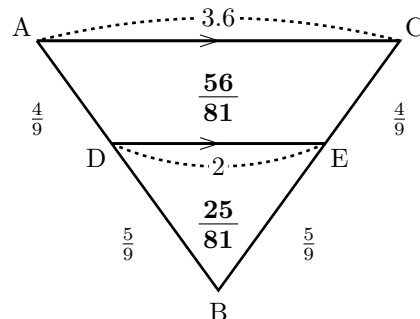


$$39 : 91 = 3 : 7 \Rightarrow BD : DA = 3 : 4$$

$$\frac{3}{7} \times \frac{3}{7} = \frac{9}{49}$$

$$1 - \frac{9}{49} = \frac{40}{49}$$

(6)



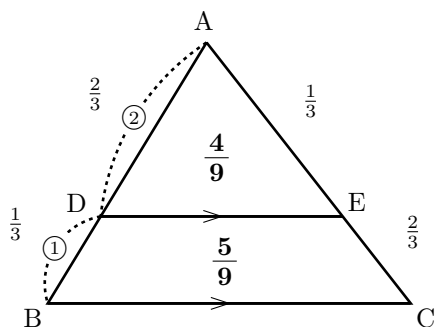
$$2 : 3.6 = 20 : 36 = 5 : 9 \Rightarrow BD : DA = 5 : 4$$

$$\frac{5}{9} \times \frac{5}{9} = \frac{25}{81}$$

$$1 - \frac{25}{81} = \frac{56}{81}$$

2. $\triangle ABC$ に対する面積の割合を図の中に書き込め。(S級 40秒, A級 55秒, B級 1分 50秒, C級 2分 50秒)

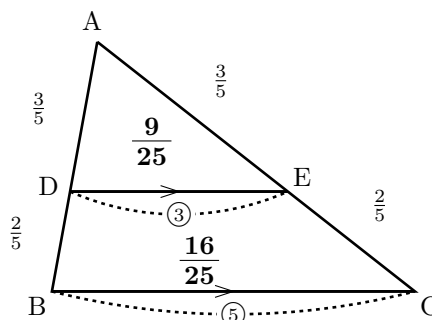
(1)



$$\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$$

$$1 - \frac{4}{9} = \frac{5}{9}$$

(2)

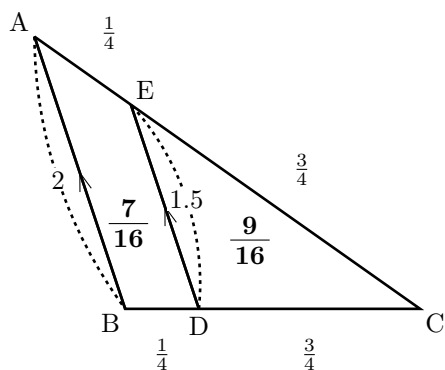


$$3:5 \Rightarrow AD:DB = 3:2$$

$$\frac{3}{5} \times \frac{3}{5} = \frac{9}{25}$$

$$1 - \frac{9}{25} = \frac{16}{25}$$

(3)

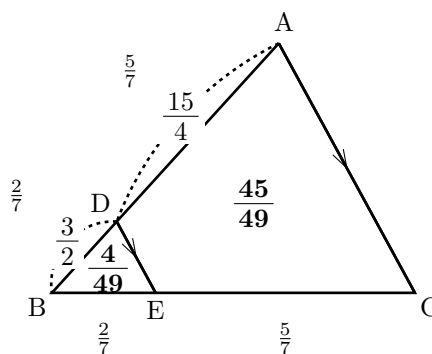


$$2:1.5 = 4:3 \Rightarrow BD:DC = 1:3$$

$$\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

$$1 - \frac{9}{16} = \frac{7}{16}$$

(4)

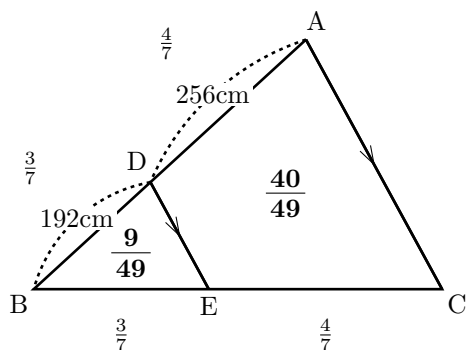


$$\frac{3}{2} : \frac{15}{4} = \frac{6}{4} : \frac{15}{4} = 6:15 = 2:5$$

$$\frac{2}{7} \times \frac{2}{7} = \frac{4}{49}$$

$$1 - \frac{4}{49} = \frac{45}{49}$$

(5)

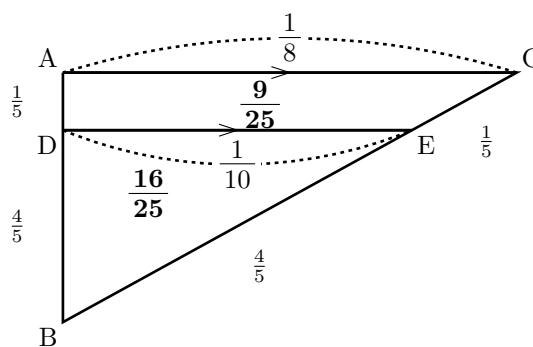


$$192:256 = 3:4 \Rightarrow BD:DA = 3:4$$

$$\frac{3}{7} \times \frac{3}{7} = \frac{9}{49}$$

$$1 - \frac{9}{49} = \frac{40}{49}$$

(6)



$$\frac{1}{10} : \frac{1}{8} = 8:10 = 4:5 \Rightarrow BD:DA = 4:1$$

$$\frac{4}{5} \times \frac{4}{5} = \frac{16}{25}$$

$$1 - \frac{16}{25} = \frac{9}{25}$$