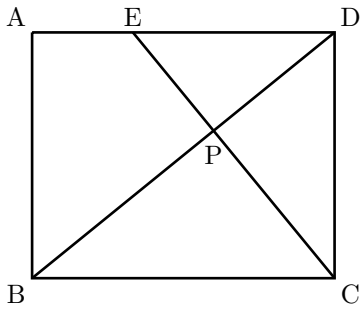


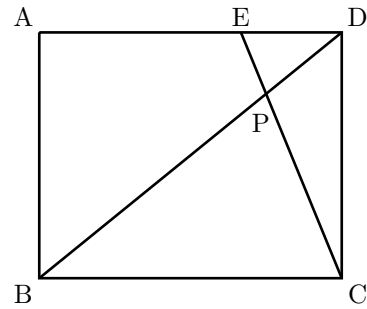
## 反射テスト 面積比 台形 in 長方形 02

1. 下図の長方形の内部に面積比を書き込め。(S級40秒, A級1分30秒, B級2分30秒, C級4分)

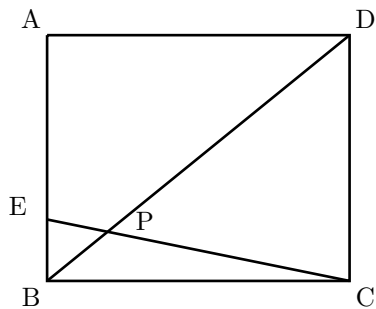
(1)  $AE : ED = 1 : 2$



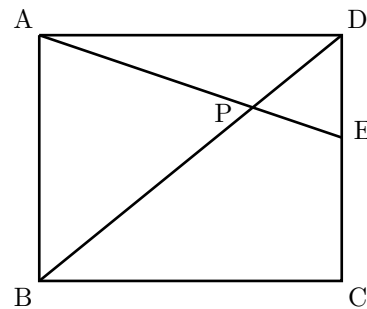
(2)  $AE : ED = 7 : 3$



(3)  $AE : EB = 3 : 1$

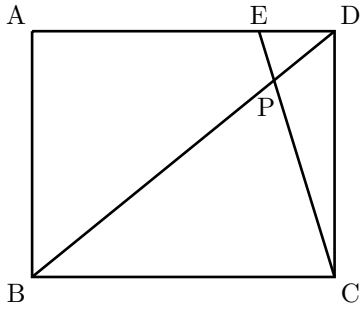


(4)  $CE : ED = 7 : 5$

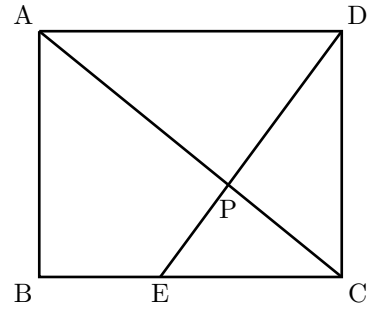


2. 下図の長方形の内部に面積比を書き込め。(S級45秒, A級1分30秒, B級2分30秒, C級4分)

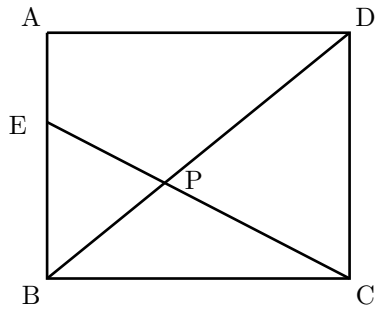
(1)  $AE : ED = 5 : 1$



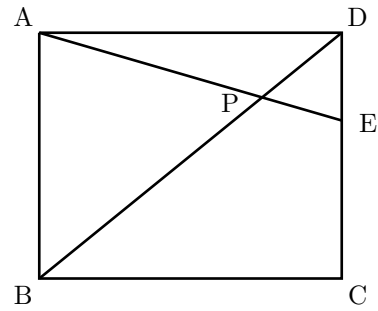
(2)  $BE : EC = 2 : 3$



(3)  $AE : EB = 4 : 7$



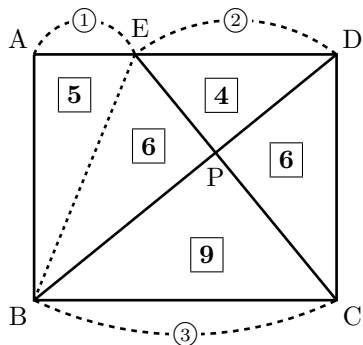
(4)  $CE : ED = 9 : 5$



# 反射テスト 面積比 台形 in 長方形 02 解答解説

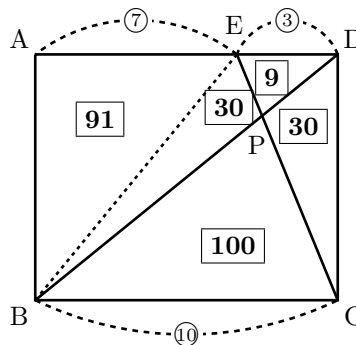
1. 下図の長方形の内部に面積比を書き込め。(S級40秒, A級1分30秒, B級2分30秒, C級4分)

(1)  $AE : ED = 1 : 2$



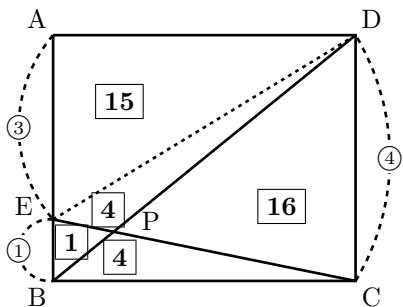
$$\begin{aligned} \triangle ABE &= \triangle BCD - \triangle BDE \\ &= (\boxed{6} + \boxed{9}) - (\boxed{4} + \boxed{6}) \\ &= \boxed{5} \end{aligned}$$

(2)  $AE : ED = 7 : 3$



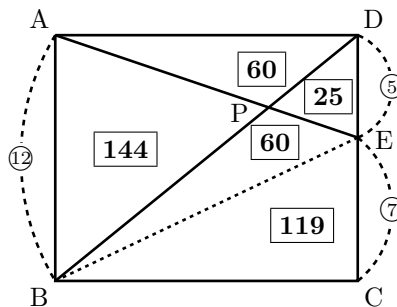
$$\begin{aligned} \triangle ABE &= \triangle BCD - \triangle BDE \\ &= (\boxed{30} + \boxed{100}) - (\boxed{9} + \boxed{30}) \\ &= \boxed{91} \end{aligned}$$

(3)  $AE : EB = 3 : 1$



$$\begin{aligned} \triangle AED &= \triangle BCD - \triangle BDE \\ &= (\boxed{4} + \boxed{16}) - (\boxed{1} + \boxed{4}) \\ &= \boxed{15} \end{aligned}$$

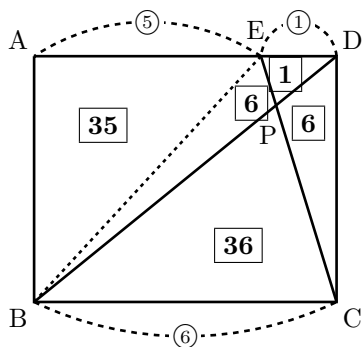
(4)  $CE : ED = 7 : 5$



$$\begin{aligned} \triangle BCE &= \triangle ABD - \triangle BED \\ &= (\boxed{60} + \boxed{144}) - (\boxed{25} + \boxed{60}) \\ &= \boxed{119} \end{aligned}$$

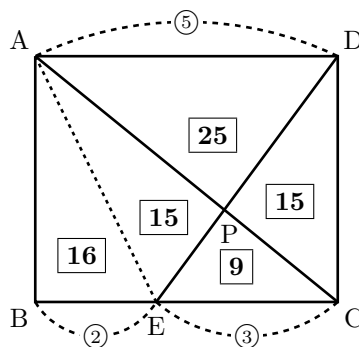
2. 下図の長方形の内部に面積比を書き込め。(S級45秒, A級1分30秒, B級2分30秒, C級4分)

(1)  $AE : ED = 5 : 1$



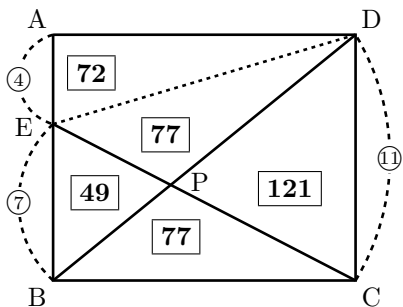
$$\begin{aligned} \triangle ABE &= \triangle BCD - \triangle BDE \\ &= (\boxed{6} + \boxed{36}) - (\boxed{1} + \boxed{6}) \\ &= \boxed{35} \end{aligned}$$

(2)  $BE : EC = 2 : 3$



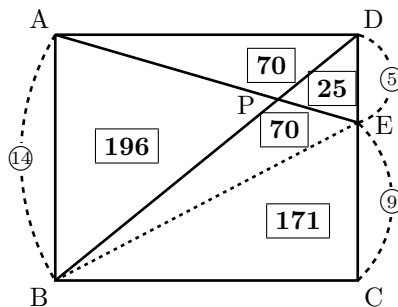
$$\begin{aligned} \triangle ABE &= \triangle ACD - \triangle AEC \\ &= (\boxed{15} + \boxed{25}) - (\boxed{9} + \boxed{15}) \\ &= \boxed{16} \end{aligned}$$

(3)  $AE : EB = 4 : 7$



$$\begin{aligned} \triangle AED &= \triangle BCD - \triangle BDE \\ &= (\boxed{77} + \boxed{121}) - (\boxed{49} + \boxed{77}) \\ &= \boxed{72} \end{aligned}$$

(4)  $CE : ED = 9 : 5$



$$\begin{aligned} \triangle BCE &= \triangle ABD - \triangle BED \\ &= (\boxed{70} + \boxed{196}) - (\boxed{25} + \boxed{70}) \\ &= \boxed{171} \end{aligned}$$