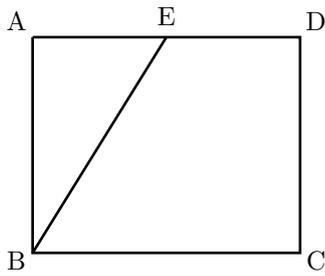


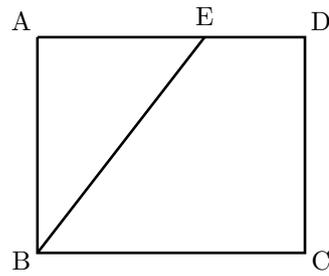
反射テスト 面積比 長方形 01

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10秒, B級1分40秒, C級2分30秒)

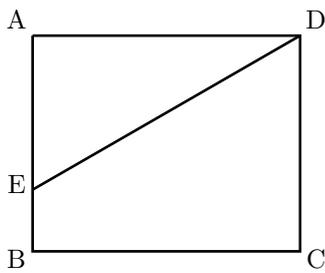
(1) $AE : ED = 1 : 1$



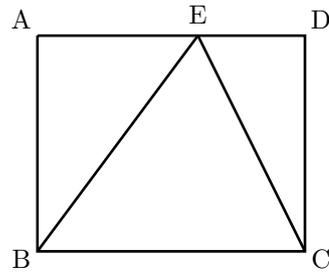
(2) $AE : ED = 5 : 3$



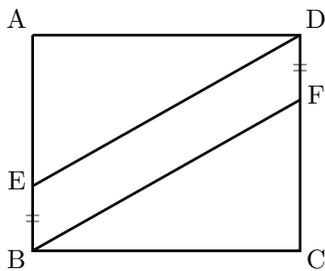
(3) $AE : EB = 12 : 5$



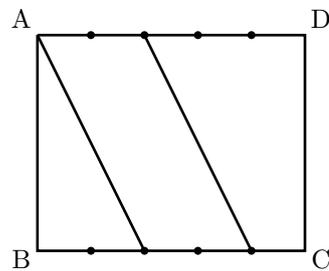
(4) $AE : ED = 3 : 2$



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

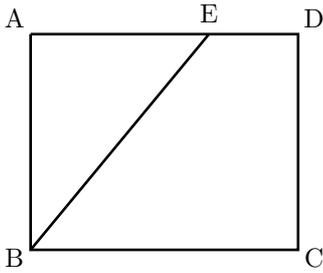


(6) 図の点は、等分点

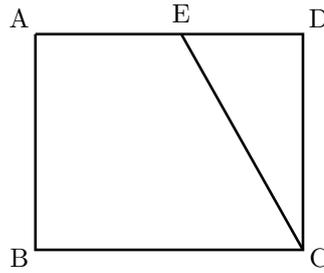


2. 下図の長方形の内部に面積比を書き込め。(S級45秒, A級1分20秒, B級2分, C級3分)

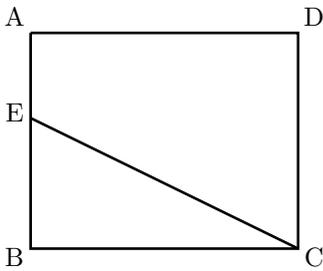
(1) $AE : ED = 2 : 1$



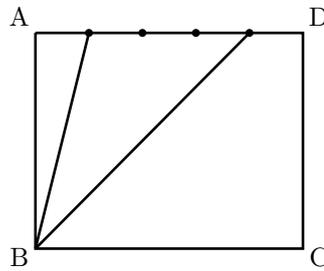
(2) $AE : ED = 6 : 5$



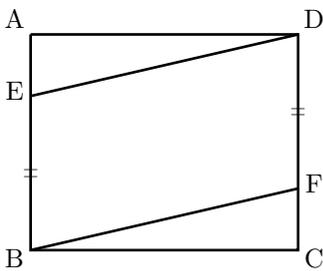
(3) $AE : EB = 15 : 23$



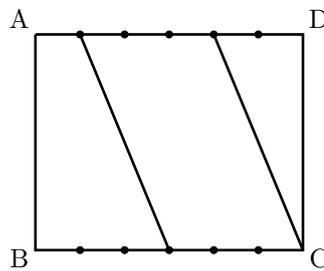
(4) 図の点は, 等分点



(5) $AE : EB = 2 : 5$



(6) 図の点は, 等分点

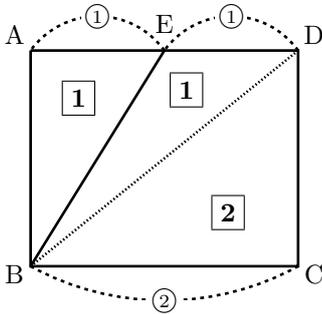


反射テスト 面積比 長方形 01 解答解説

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10秒, B級1分40秒, C級2分30秒)

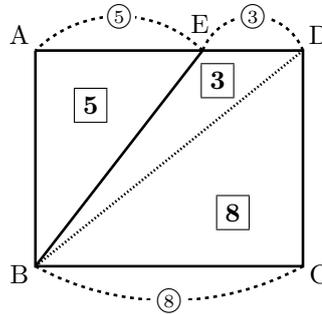
★直線図形の基本は三角形 補助線を引こう。

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



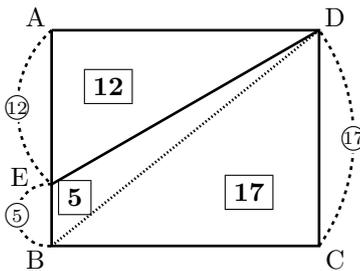
合わせて書いた場合は
 $\Delta : \text{台形} = 1 : (1 + 2) = 1 : 3$

(2) $AE : ED = 5 : 3$



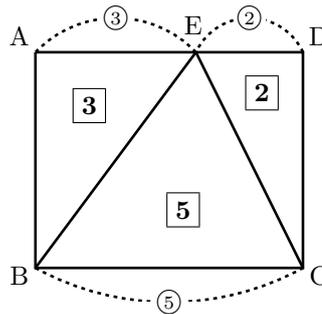
合わせて書いた場合は
 $\Delta : \text{台形} = 5 : (3 + 8) = 5 : 11$

(3) $AE : EB = 12 : 5$

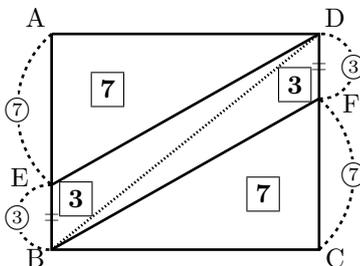


合わせて書いた場合は
 $\Delta : \text{台形} = 12 : (5 + 17) = 6 : 11$
 比の約分を忘れない。

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

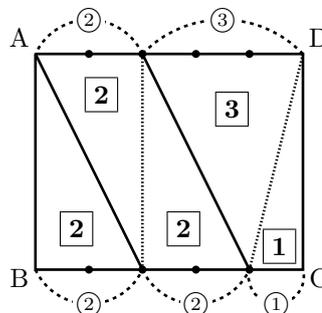


(5) $AE : EB = 7 : 3$



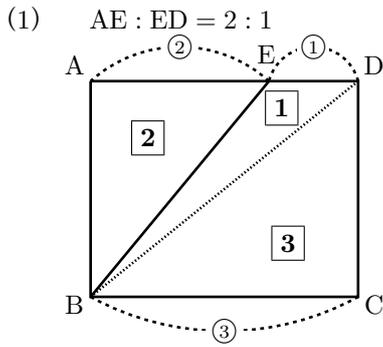
合わせて書いた場合は
 $\Delta : \text{平行四辺形} : \Delta$
 $= 7 : (3 + 3) : 7 = 7 : 6 : 7$

(6) 図の点は、等分点



合わせて書いた場合は
 $\Delta : \text{平行四辺形} : \text{台形}$
 $= 2 : (2 + 2) : (1 + 3) = 2 : 4 : 4 = 1 : 2 : 2$

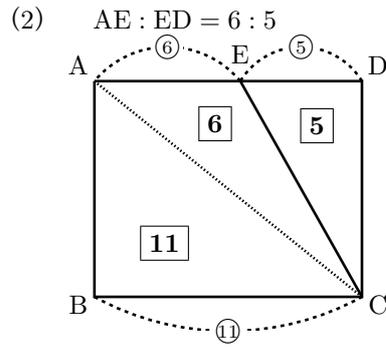
2. 下図の長方形の内部に面積比を書き込め。(S級45秒, A級1分20秒, B級2分, C級3分)



合わせて書いた場合は

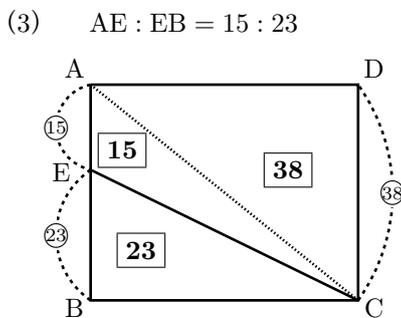
$$\triangle : \text{台形} = 2 : (1 + 3) = 1 : 2$$

比の約分を忘れない。



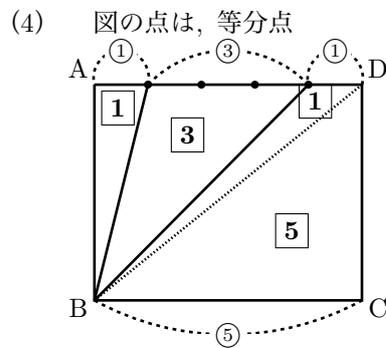
合わせて書いた場合は

$$\triangle : \text{台形} = 5 : (6 + 11) = 5 : 17$$



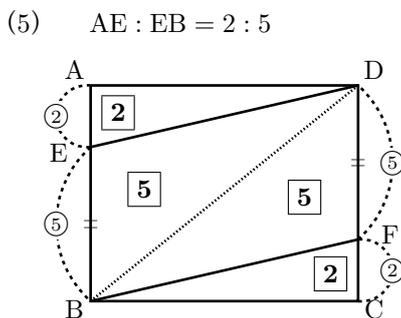
合わせて書いた場合は

$$\triangle : \text{台形} = 23 : (15 + 38) = 23 : 53$$



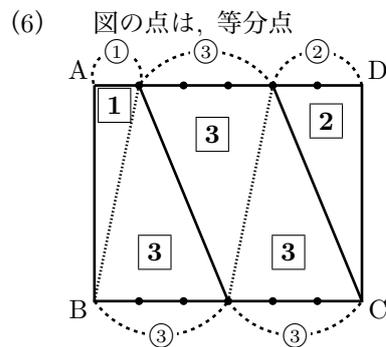
合わせて書いた場合は

$$\triangle : \triangle : \text{台形} = 1 : 3 : (1 + 5) = 1 : 3 : 6$$



合わせて書いた場合は

$$\begin{aligned} \triangle : \text{平行四辺形} : \triangle \\ = 2 : (5 + 5) : 2 = 2 : 10 : 2 = 1 : 5 : 1 \end{aligned}$$



合わせて書いた場合は

$$\begin{aligned} \text{台形} : \text{平行四辺形} : \triangle \\ = (1 + 3) : (3 + 3) : 2 = 4 : 6 : 2 = 2 : 3 : 1 \end{aligned}$$