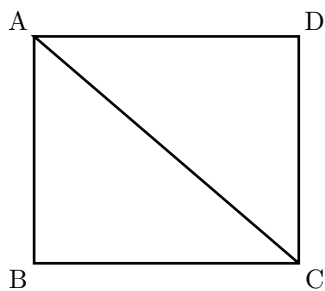


反射テスト 面積比 四角形と対角線 02

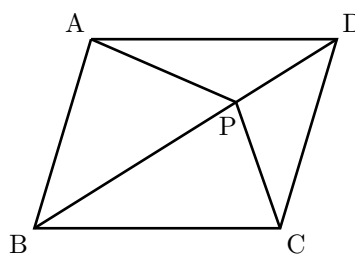
1. 下の図形の内部に面積比を書き込め。(S級50秒, A級1分15秒, B級1分40秒, C級3分30秒)

(1) 長方形 ABCD



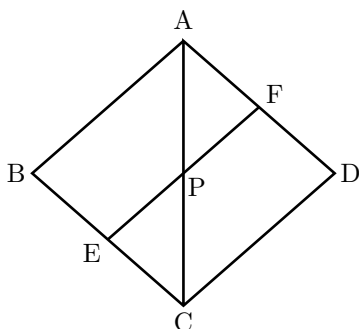
(2) 平行四辺形 ABCD

$$BP : PD = 2 : 1$$



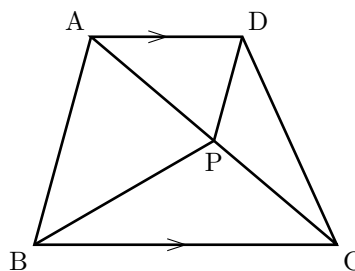
(3) ひし形 ABCD

$$BE : EC = AF : FD = 1 : 1$$



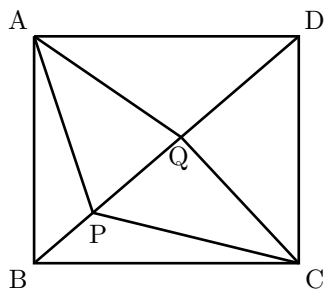
(4) 台形 ABCD

$$AD : BC = 1 : 2, \quad AP : PC = 1 : 1$$



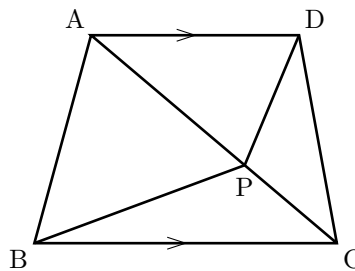
(5) 長方形 ABCD

$$BP : PQ : QD = 2 : 3 : 4$$



(6) 台形 ABCD

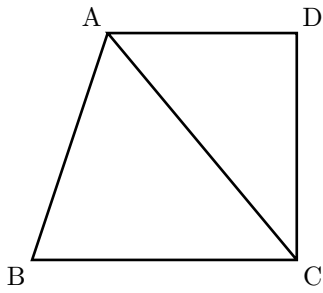
$$AD : BC = 2 : 3, \quad AP : PC = 7 : 4$$



2. 下の図形の内部に面積比を書き込め。(S級1分, A級1分30秒, B級2分, C級4分)

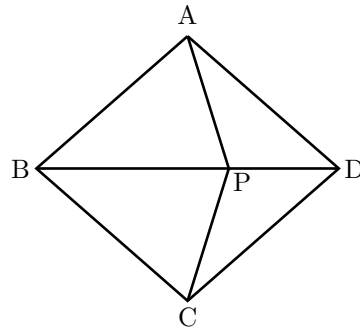
(1) 台形 ABCD

$$AD : BC = 3 : 5$$



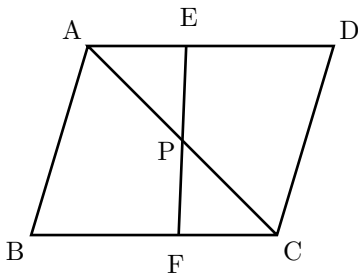
(2) ひし形 ABCD

$$BP : PD = 7 : 4$$



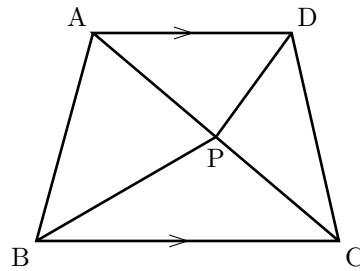
(3) 平行四辺形 ABCD

$$AE : ED = CF : FB = 2 : 3$$



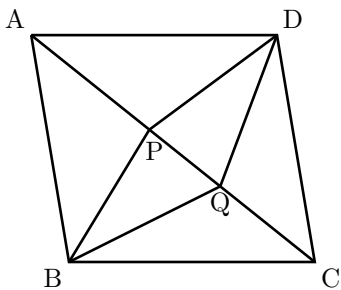
(4) 台形 ABCD

$$AD : BC = 2 : 3, \quad AP : PC = 1 : 1$$



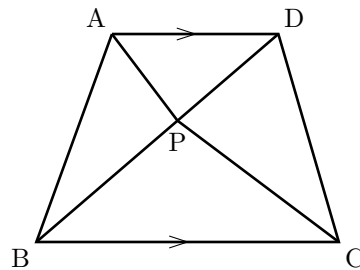
(5) 平行四辺形 ABCD

$$AP : PQ : QC = 5 : 3 : 4$$



(6) 台形 ABCD

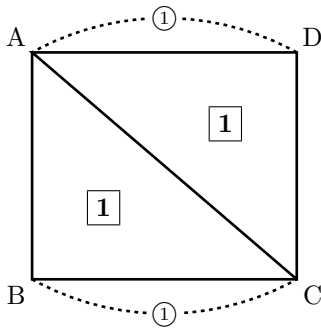
$$AD : BC = 5 : 9, \quad BP : PD = 7 : 5$$



反射テスト 面積比 四角形と対角線 02 解答解説

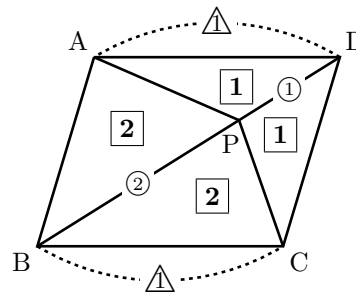
1. 下の図形の内部に面積比を書き込め。(S級 50秒, A級 1分15秒, B級 1分40秒, C級 3分30秒)

(1) 長方形 ABCD



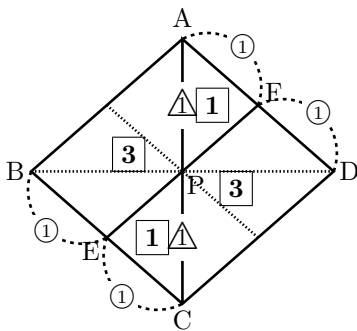
(2) 平行四辺形 ABCD

$$BP : PD = 2 : 1$$



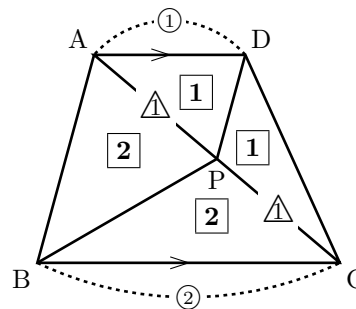
(3) ひし形 ABCD

$$BE : EC = AF : FD = 1 : 1$$



(4) 台形 ABCD

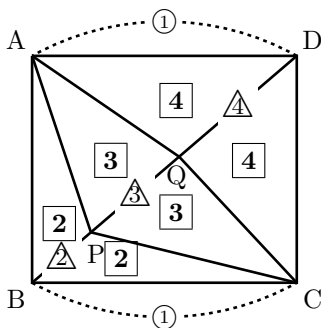
$$AD : BC = 1 : 2, \quad AP : PC = 1 : 1$$



$$\begin{aligned} &\triangle ABP : \triangle BCP : \triangle CDP : \triangle DAP \\ &= (2 \times \triangle) : (2 \times \triangle) : (1 \times \triangle) : (1 \times \triangle) \end{aligned}$$

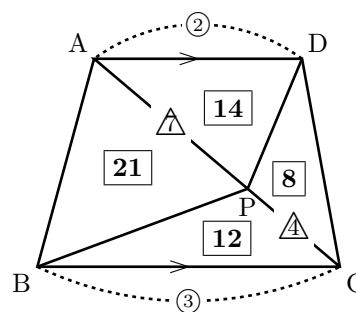
(5) 長方形 ABCD

$$BP : PQ : QD = 2 : 3 : 4$$



(6) 台形 ABCD

$$AD : BC = 2 : 3, \quad AP : PC = 7 : 4$$

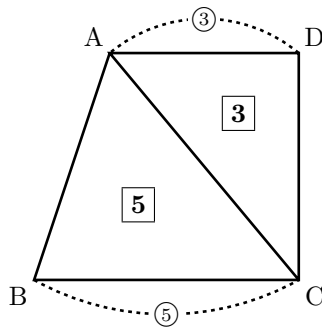


$$\begin{aligned} &\triangle ABP : \triangle BCP : \triangle CDP : \triangle DAP \\ &= (3 \times \triangle) : (3 \times \triangle) : (2 \times \triangle) : (2 \times \triangle) \end{aligned}$$

2. 下の図形の内部に面積比を書き込め。(S級1分, A級1分30秒, B級2分, C級4分)

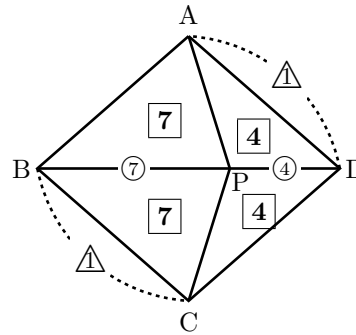
(1) 台形 ABCD

$$AD : BC = 3 : 5$$



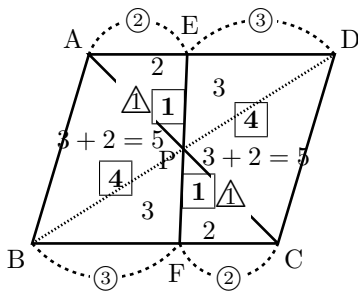
(2) ひし形 ABCD

$$BP : PD = 7 : 4$$



(3) 平行四辺形 ABCD

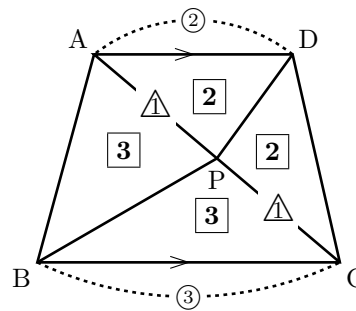
$$AE : ED = CF : FB = 2 : 3$$



$$\begin{aligned} ABFP : \triangle CPF : CDEP : \triangle APE \\ = (5 + 3) : 2 : (5 + 3) : 2 = 4 : 1 : 4 : 1 \end{aligned}$$

(4) 台形 ABCD

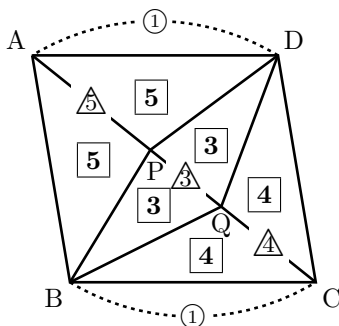
$$AD : BC = 2 : 3, \quad AP : PC = 1 : 1$$



$$\begin{aligned} \triangle ABP : \triangle BCP : \triangle CDP : \triangle DAP \\ = (\textcircled{3} \times \triangle) : (\textcircled{3} \times \triangle) : (\textcircled{2} \times \triangle) : (\textcircled{2} \times \triangle) \end{aligned}$$

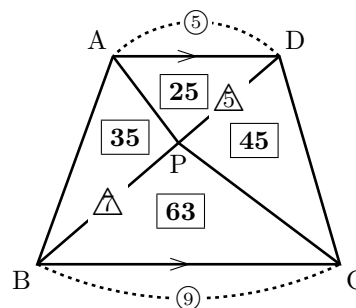
(5) 平行四辺形 ABCD

$$AP : PQ : QC = 5 : 3 : 4$$



(6) 台形 ABCD

$$AD : BC = 5 : 9, \quad BP : PD = 7 : 5$$



$$\begin{aligned} \triangle ABP : \triangle BCP : \triangle CDP : \triangle DAP \\ = (\textcircled{5} \times \triangle) : (\textcircled{9} \times \triangle) : (\textcircled{9} \times \triangle) : (\textcircled{5} \times \triangle) \end{aligned}$$