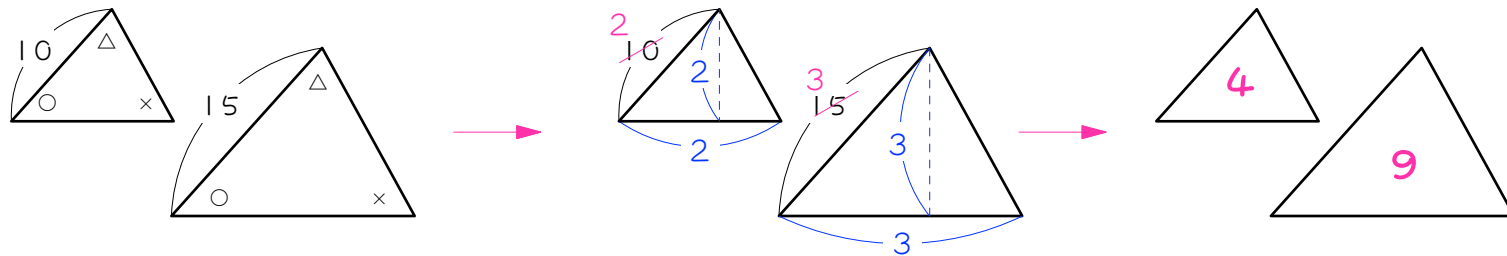


ステップ1 相似形の面積比 = 相似比の2乗

1

例にならって、2つの図形の面積比をかきこみなさい。

例)

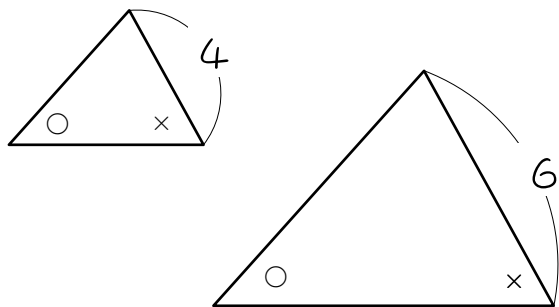


2つの図形は形が同じ(相似)

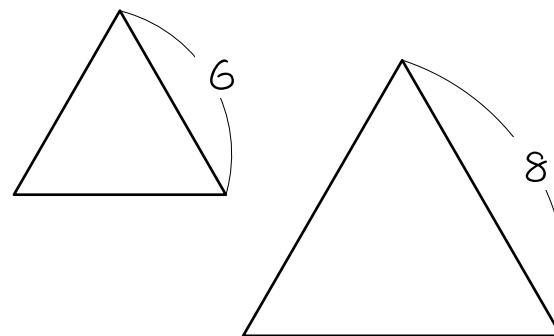
相似比が2 : 3なら、
底辺も高さも2 : 3

面積の比は
 $2 \times 2 : 3 \times 3 = 4 : 9$

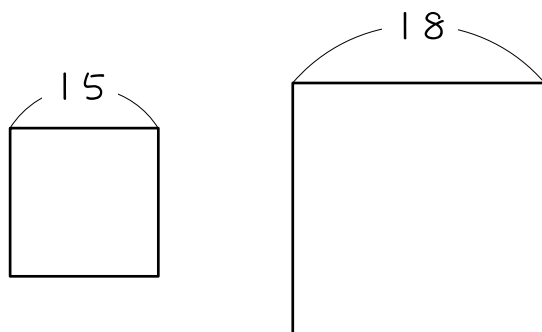
(1)



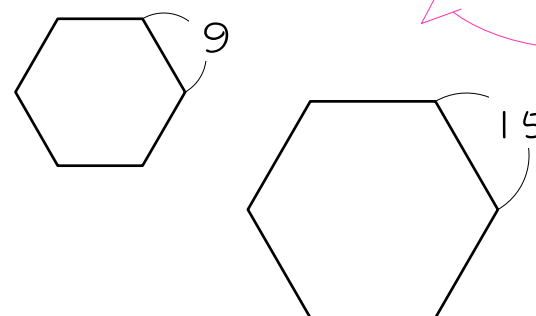
(2) 正三角形



(3) 正方形

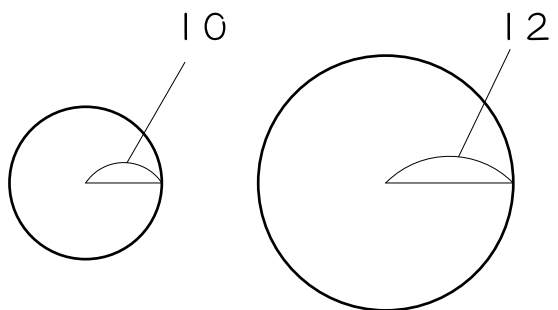


(4) 正六角形

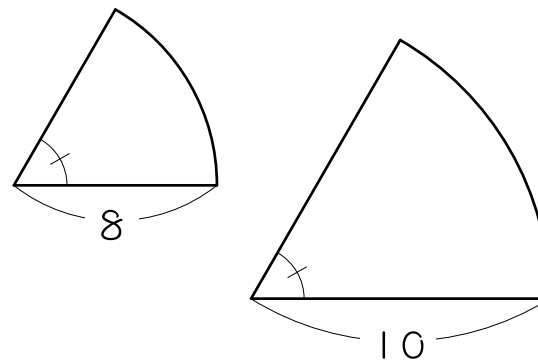


正多角形は、
いつでも相似♪

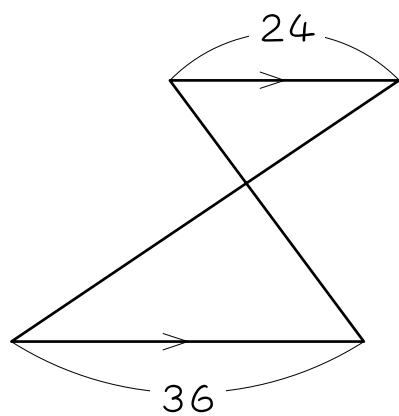
(5) 円



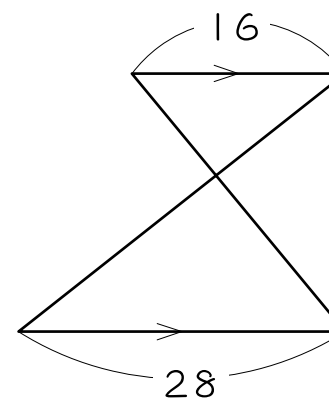
(6) 中心角が等しいおうぎ形



(7)



(8)

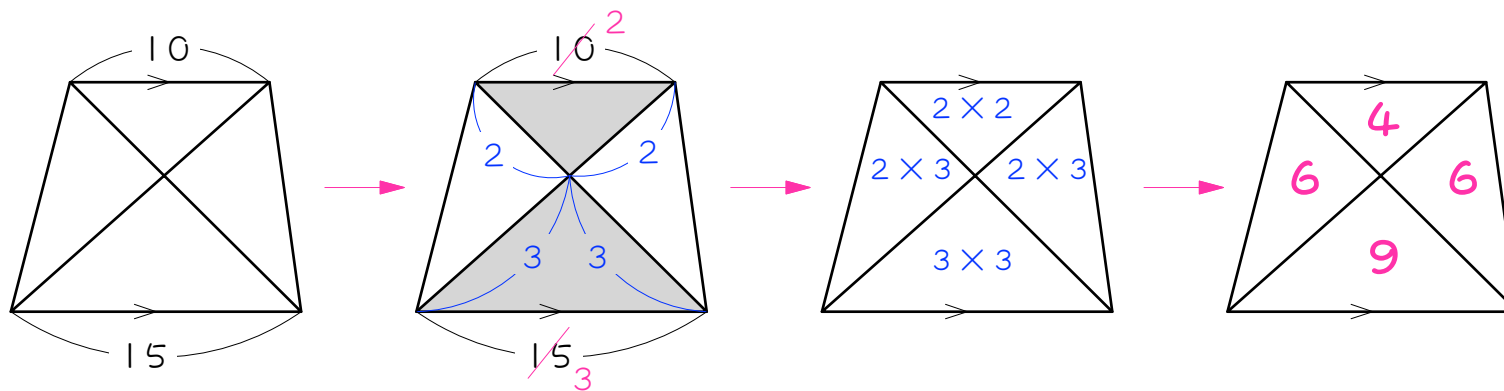


ステップ2 台形ペケボン

2

例にならって、4つの部分の面積比をかきこみなさい。

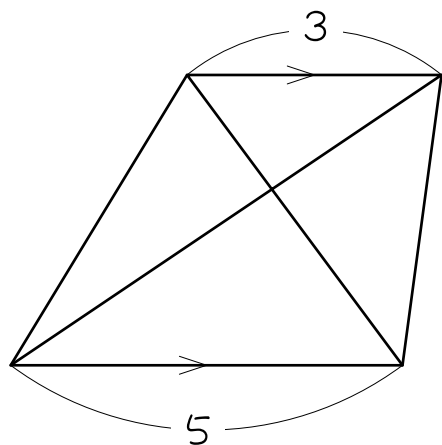
例)



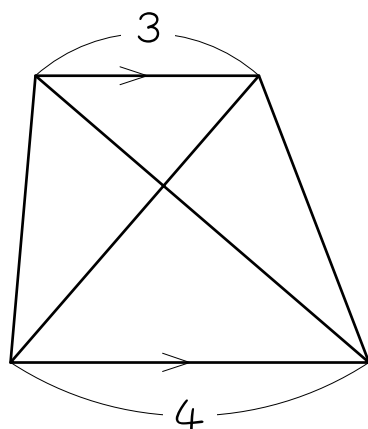
ちょうちょ相似

隣辺比のかけ算

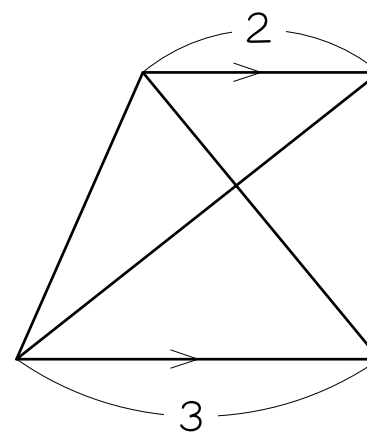
(1)



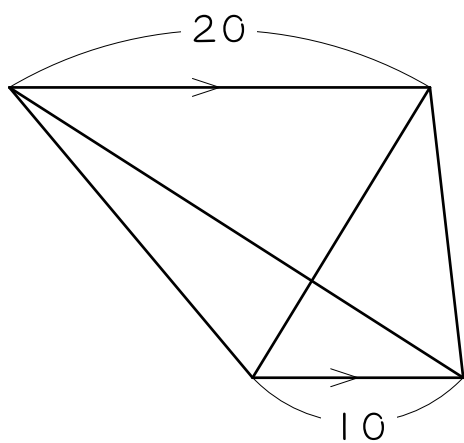
(2)



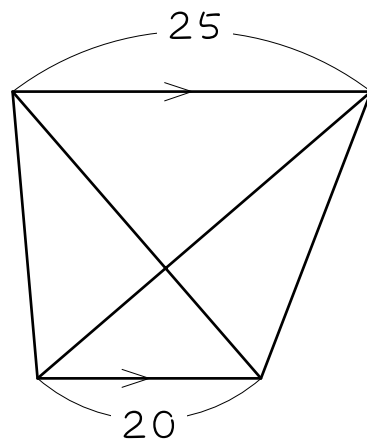
(3)



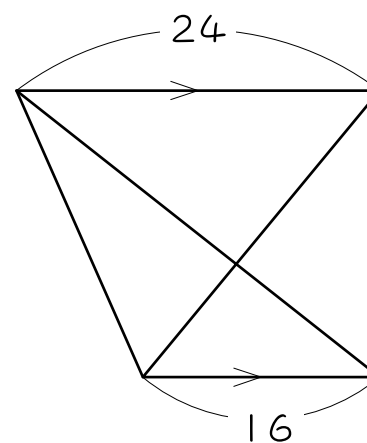
(4)



(5)



(6)

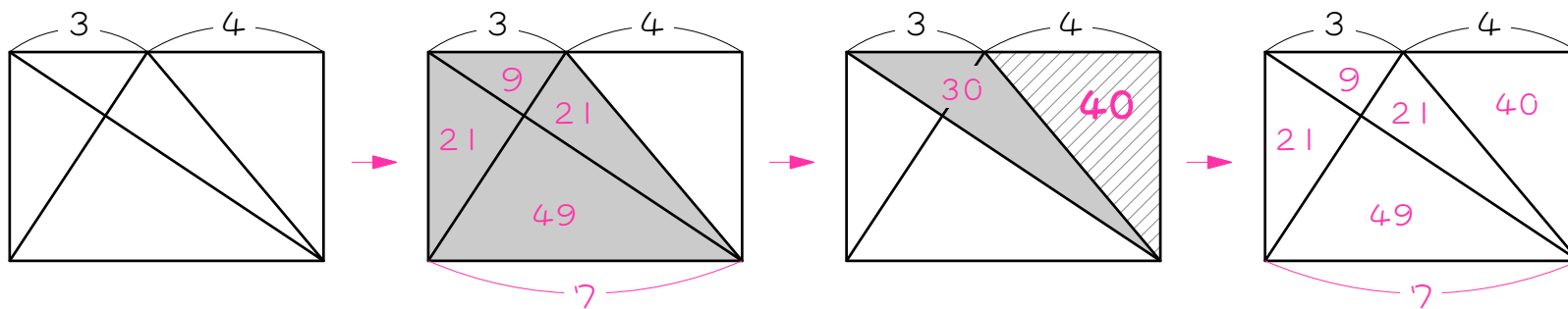


ステップ3 台形ペケボン & 区切り面積

3

例にならって、各部分の面積比をかきこみなさい。

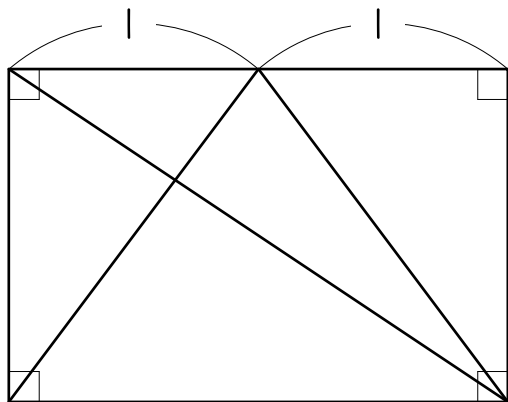
例)



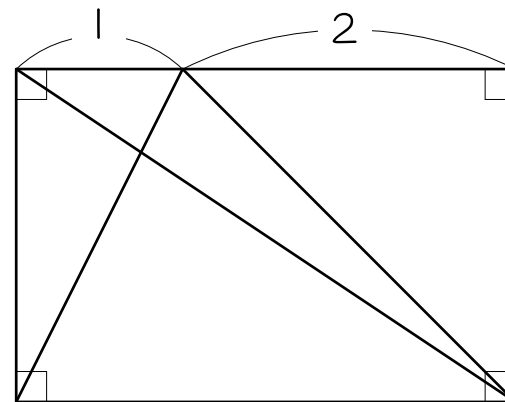
台形ペケボン

区切り面積

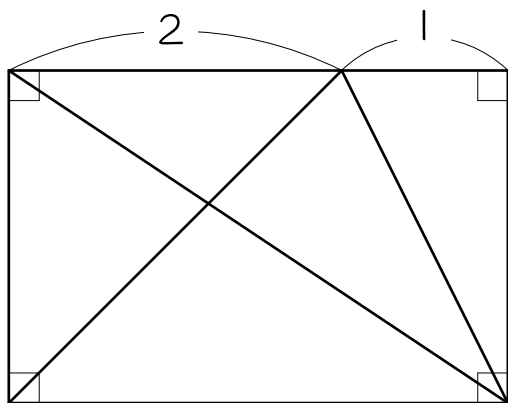
(1)



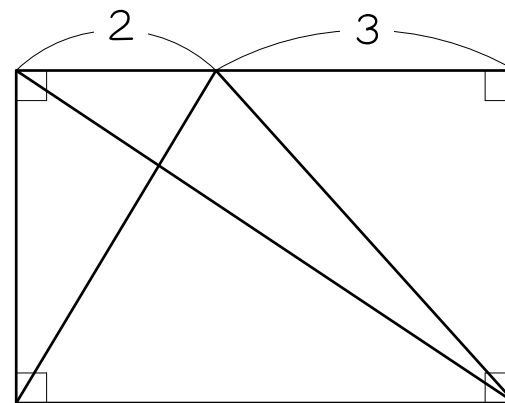
(2)



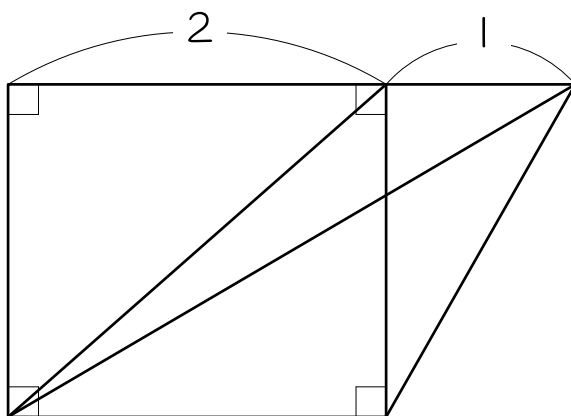
(3)



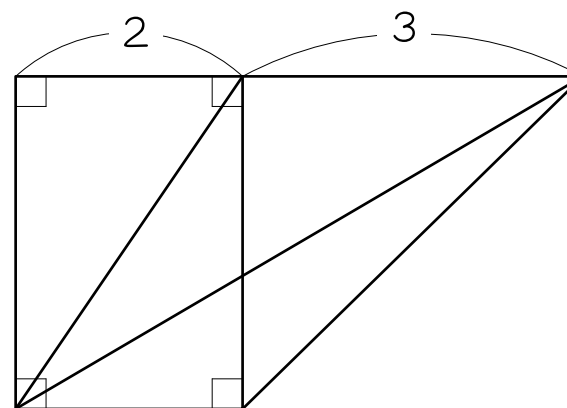
(4)



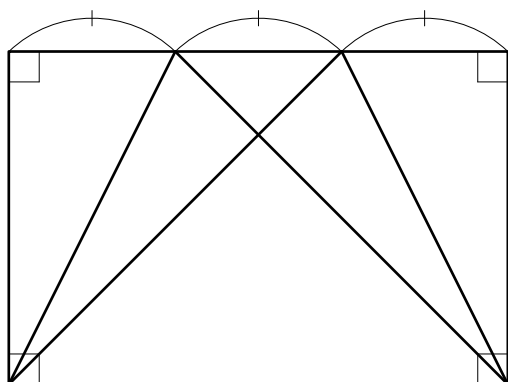
(5)



(6)

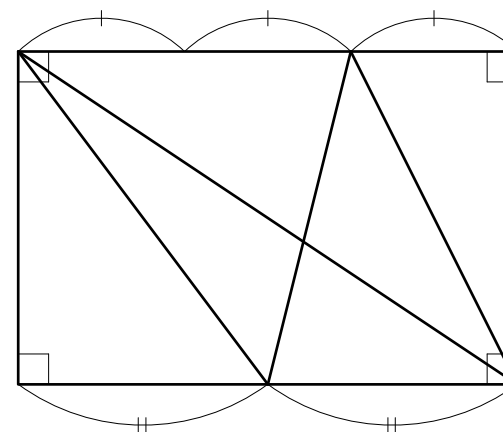


(7)



(8)[☆]

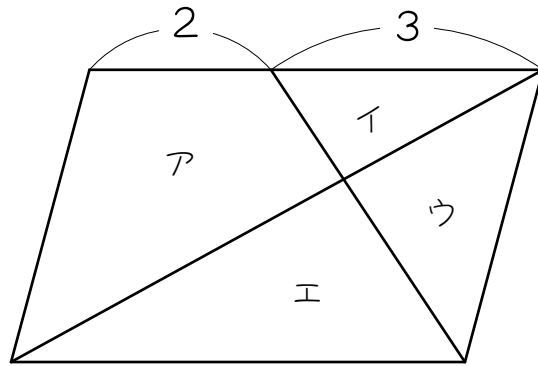
横の長さを2でも3でも割れる数にします。



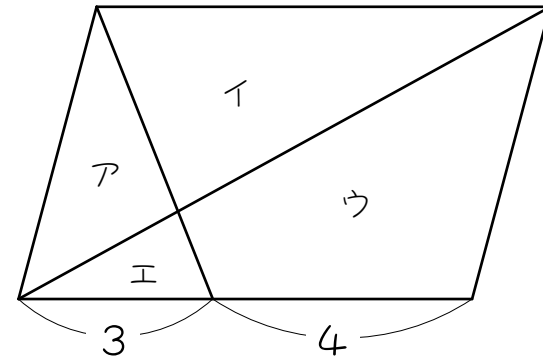
4

次の平行四辺形において、ア：イ：ウ：エを求めなさい。

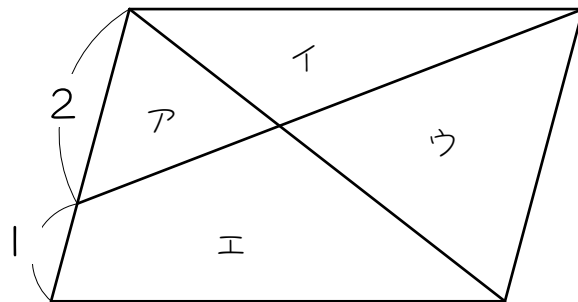
(1)



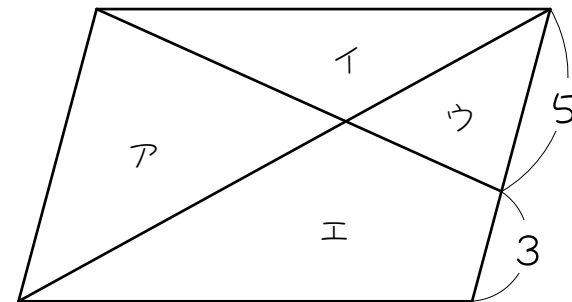
(2)



(3)



(4)



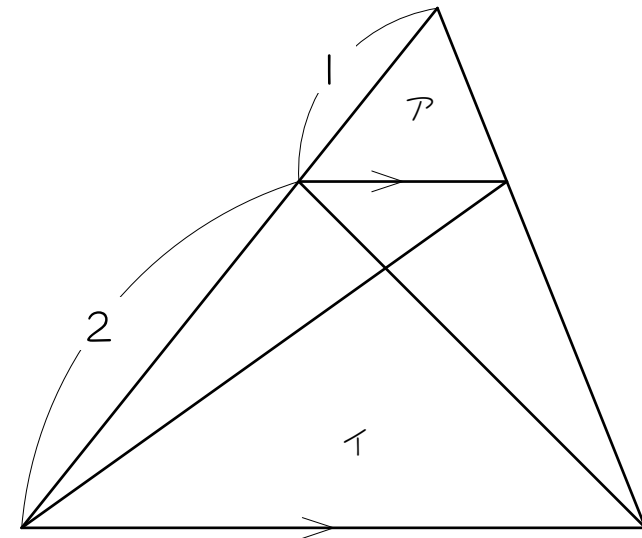
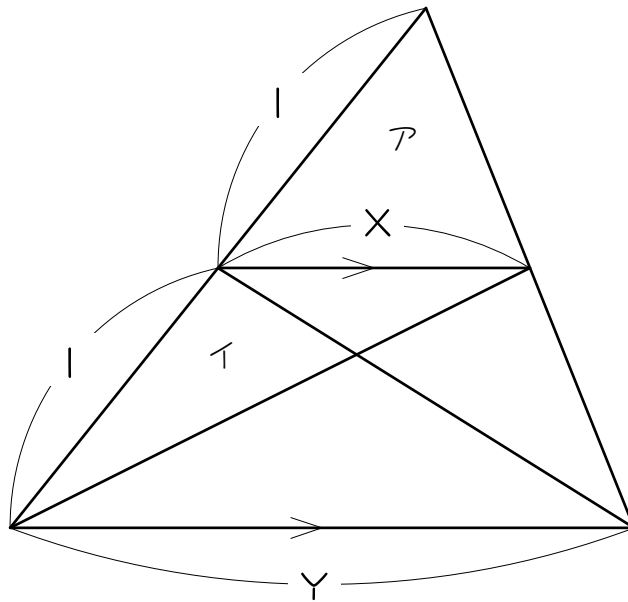
5

次の比を求めなさい。

(1) ① $x : y$

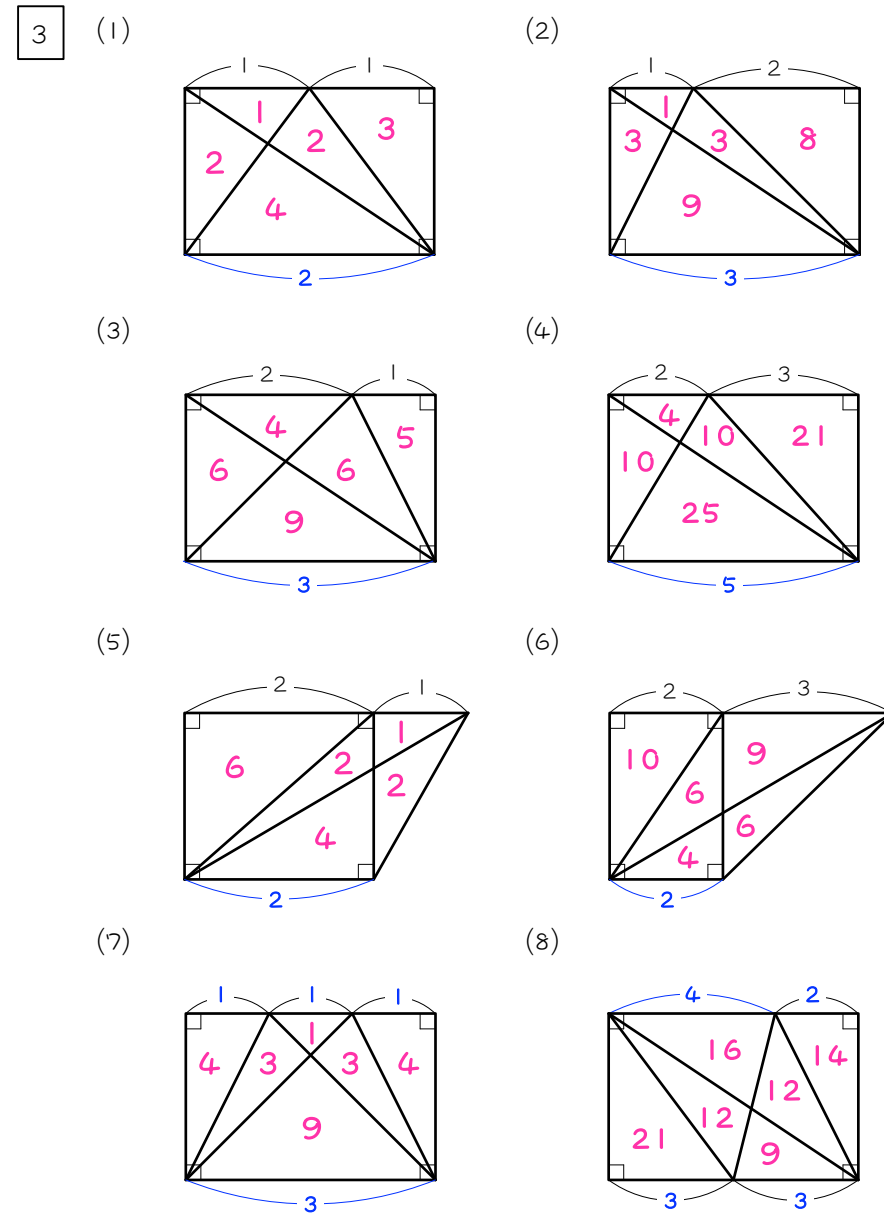
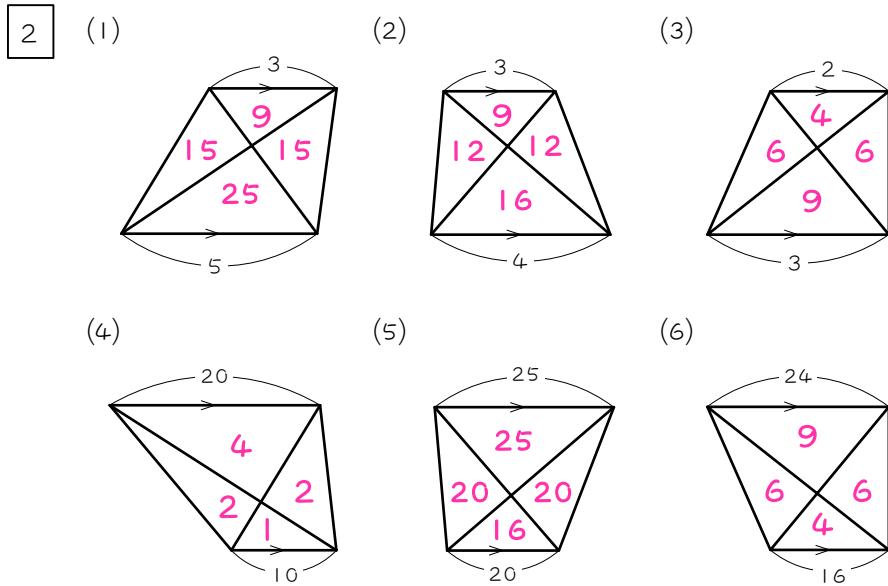
② $a : i$

(2) $a : i$



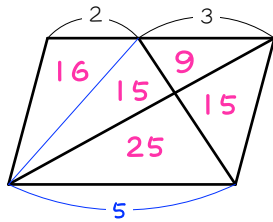
解答

- 1 (1) 4 : 9 (2) 9 : 16
 (3) 25 : 36 (4) 9 : 25
 (5) 25 : 36 (6) 16 : 25
 (7) 4 : 9 (8) 16 : 49

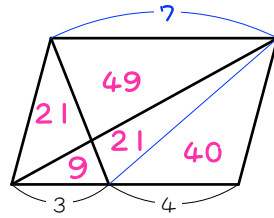


4

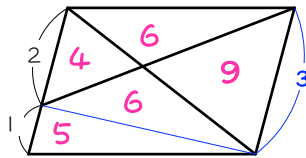
(1) $31 : 9 : 15 : 25$



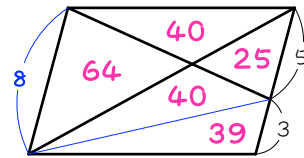
(2) $21 : 49 : 61 : 9$



(3) $4 : 6 : 9 : 11$



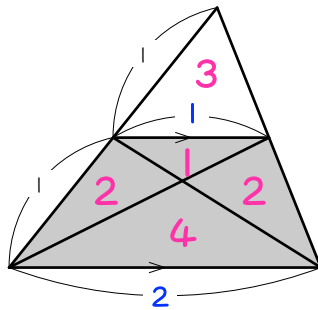
(4) $64 : 40 : 25 : 79$



5

(1) ① $1 : 2$

② $3 : 2$



(2) $2 : 9$

