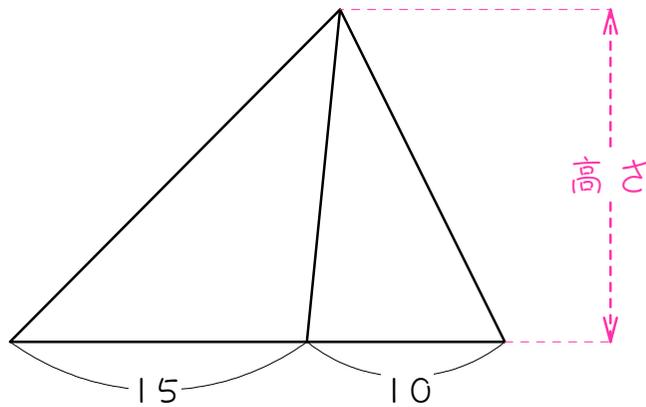


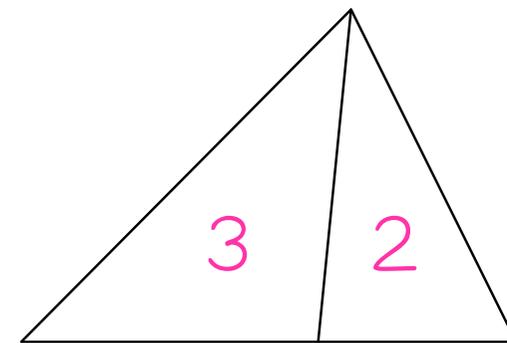
ステップ1 高さが等しいとき、底辺の比 = 面積の比

1 例にならって、各部分の面積比をかきこみなさい。

例

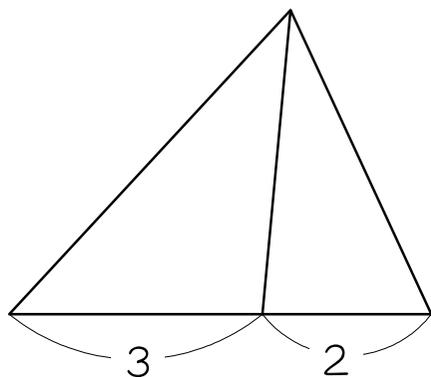


底辺の比が $15 : 10 = 3 : 2$ なら

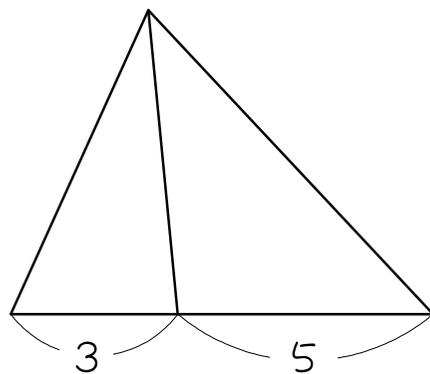


面積の比も $3 : 2$

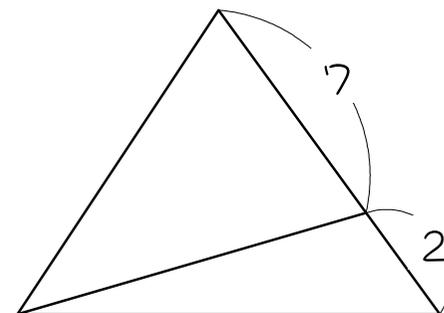
(1)



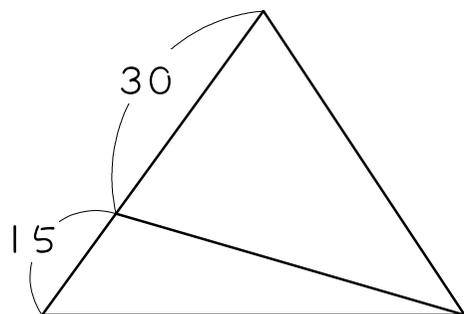
(2)



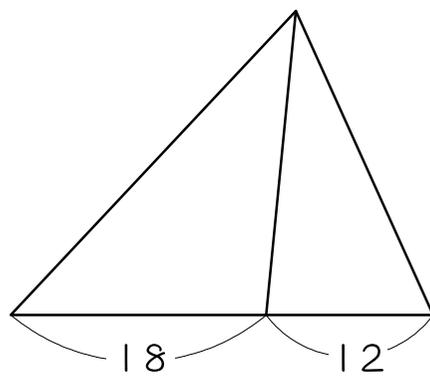
(3)



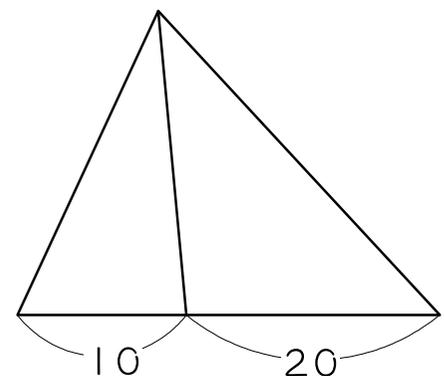
(4)



(5)



(6)

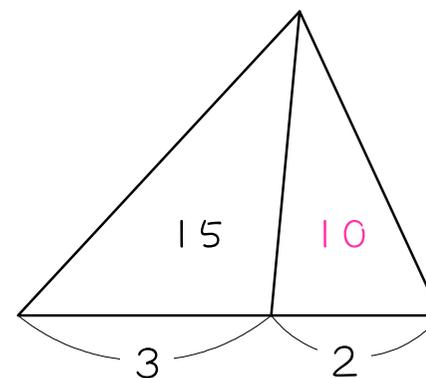
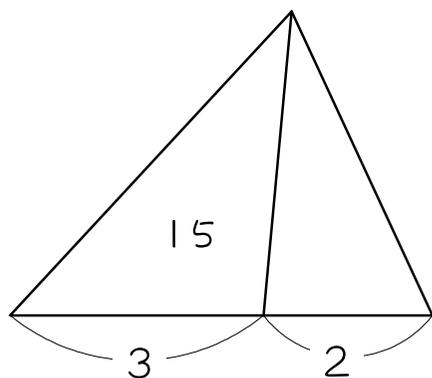


ステップ2 面積を求める

2

例にならって、残りの部分の面積をかきこみなさい。

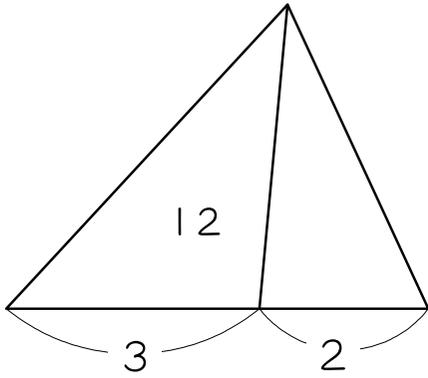
例



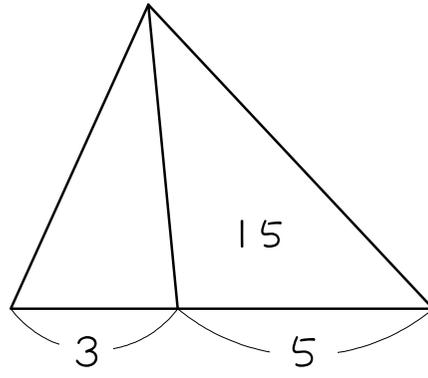
底辺の比が 3 : 2 なので、
面積の比も 3 : 2

$$15 \times \frac{2}{3} = \underline{10}$$

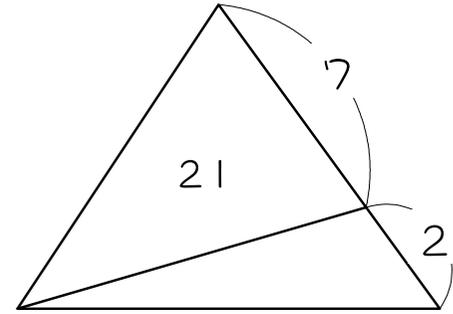
(1)



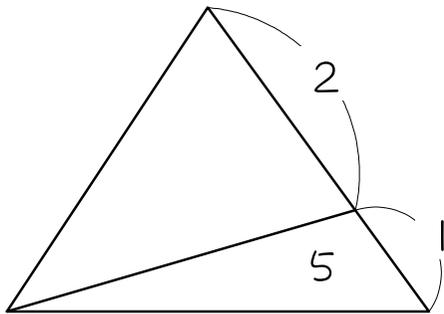
(2)



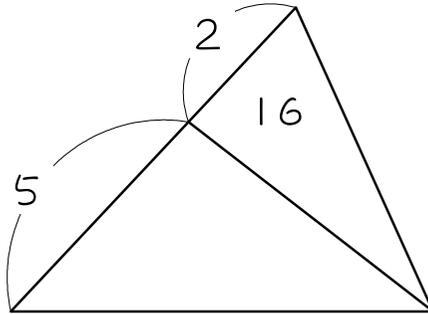
(3)



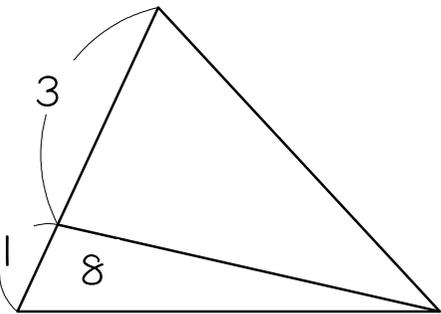
(4)



(5)



(6)

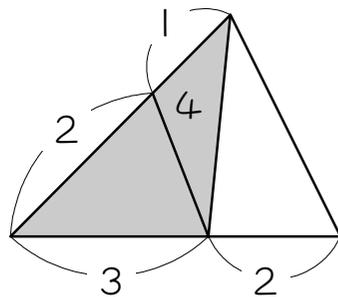


ステップ3 合体 - 面積を求める

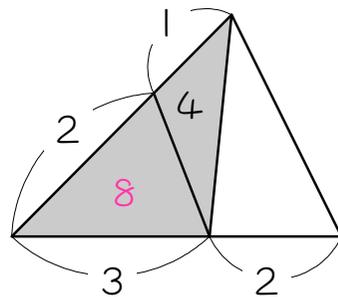
3

例にならって、残りの部分の面積をかきこみなさい（単位不要）。

例

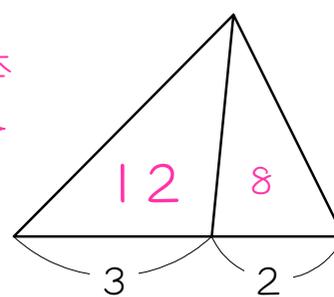


色のついた
三角形に注目



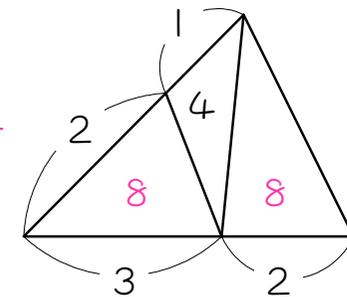
$$4 \times 2 = 8$$

合体



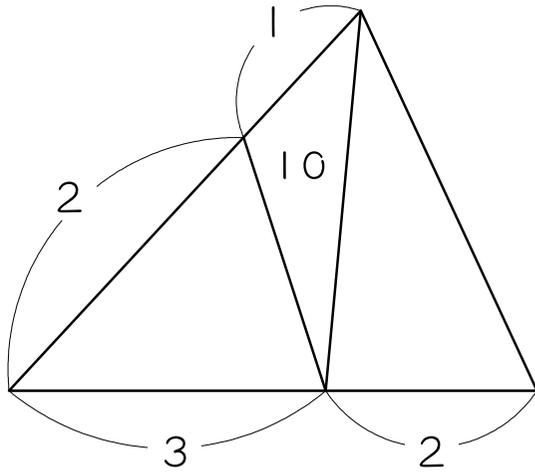
$$4 + 8 = 12$$

$$12 \times \frac{2}{3} = 8$$

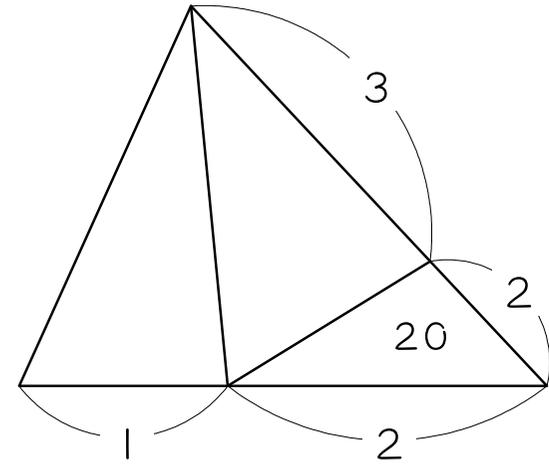


完成！

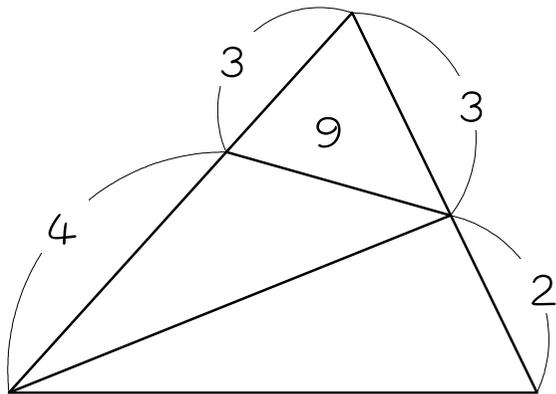
(1)



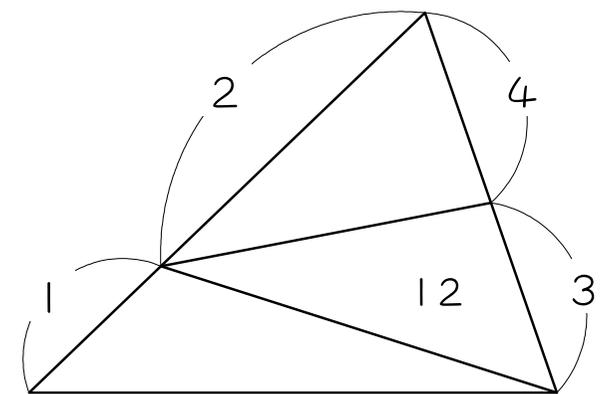
(2)



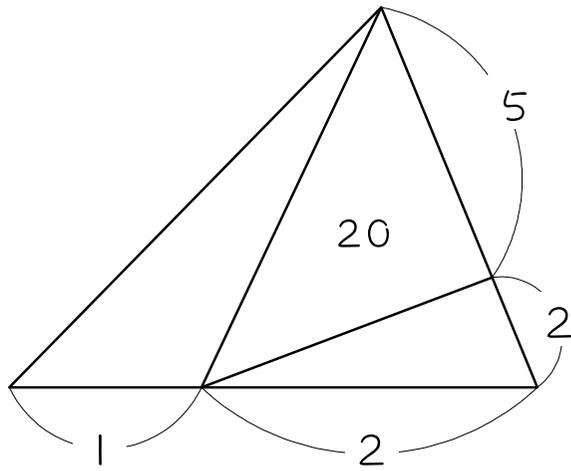
(3)



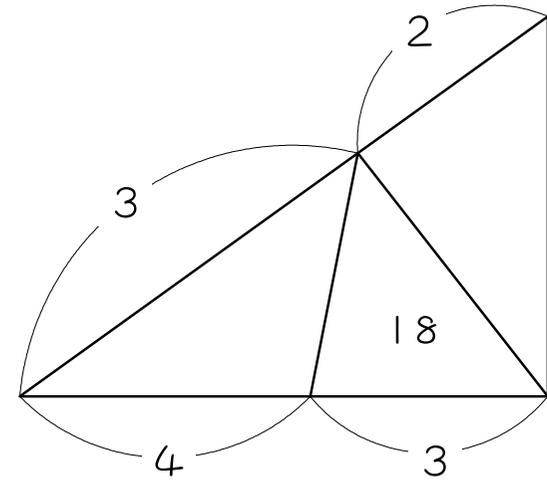
(4)



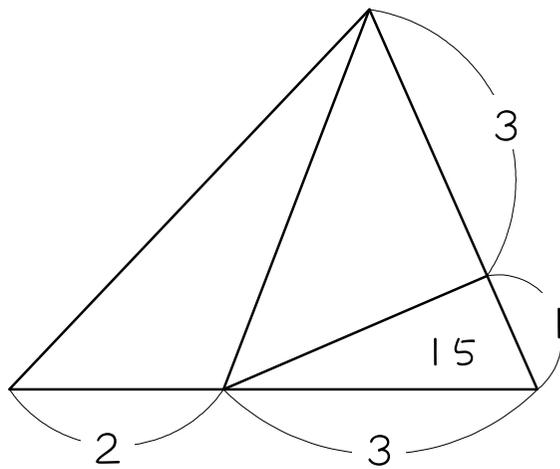
(5)



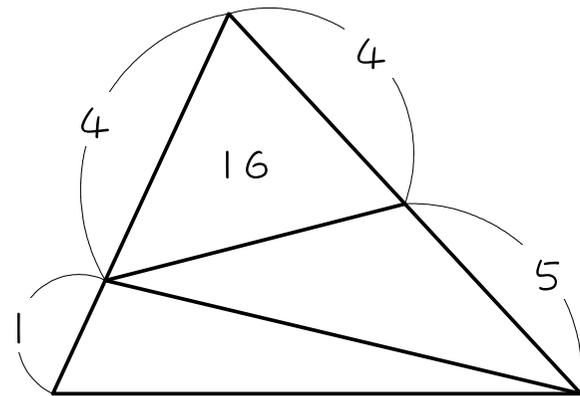
(6)



(7)



(8)

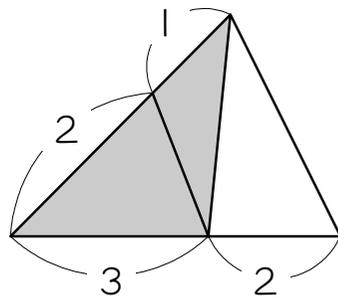


ステップ4 合体 - 面積比をかきこむ

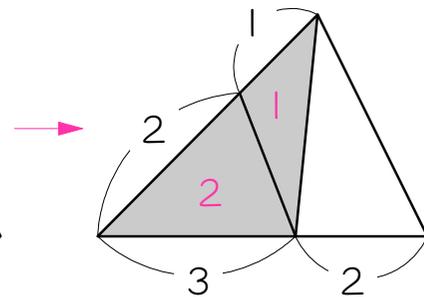
4

例にならって、各部分の面積比をかきこみなさい。

例)

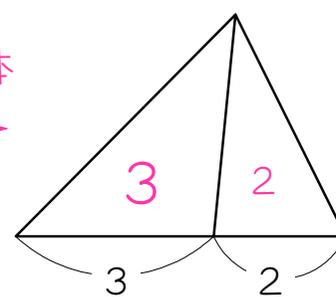


最も細かく分かれたところから考える



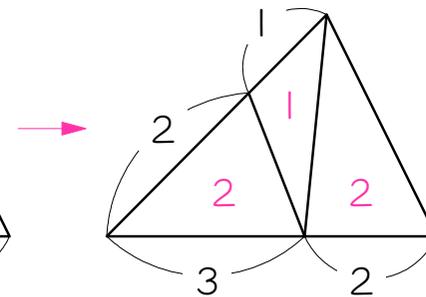
底辺の比が1 : 2 だから
面積の比も1 : 2

合体



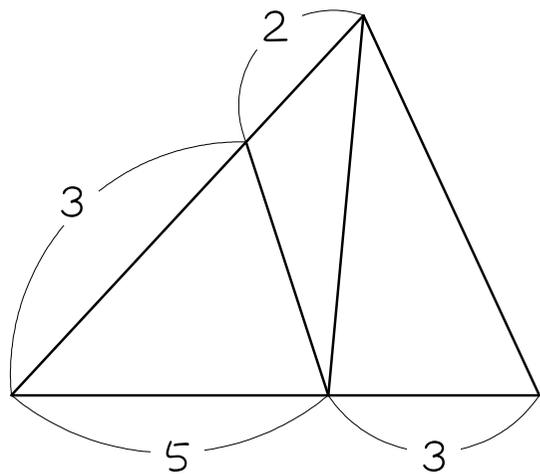
$$1 + 2 = 3$$

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

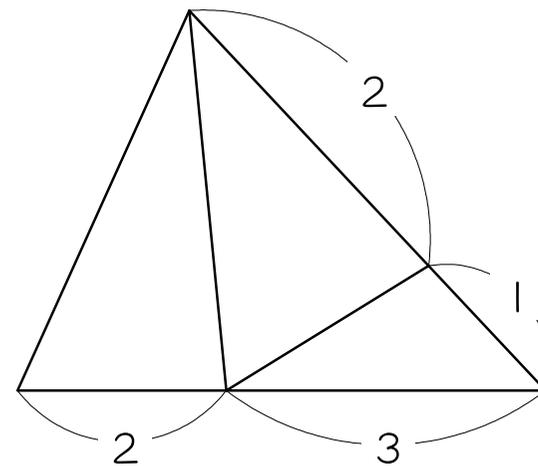


完成!

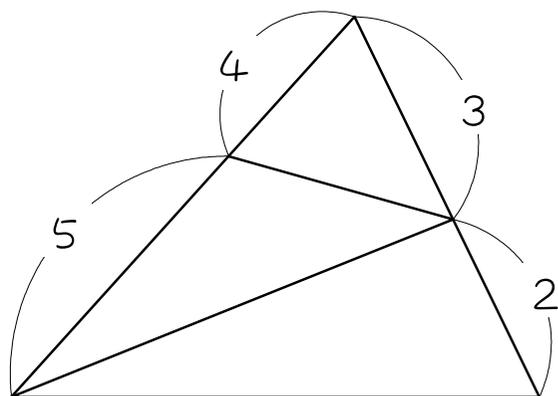
(1)



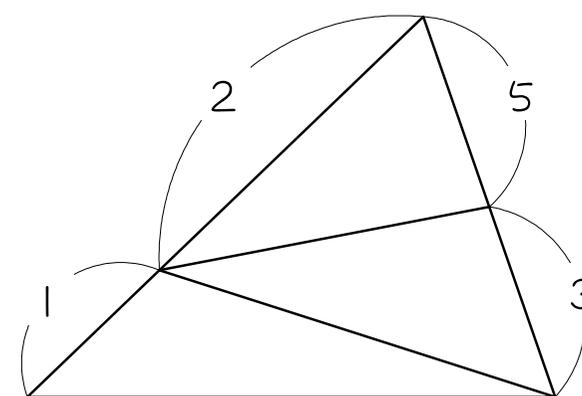
(2)



(3)



(4)

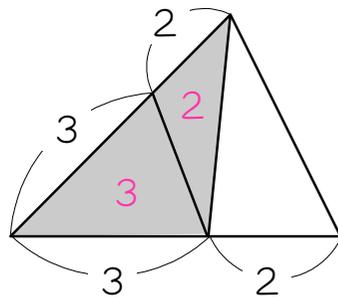


ステップ5 比をきれいにする

5

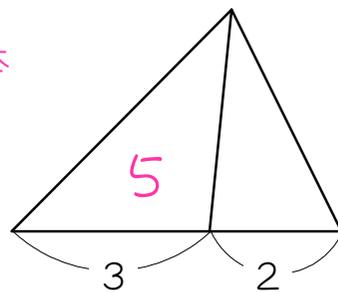
例にならって、各部分の面積比をかきこみなさい。

例



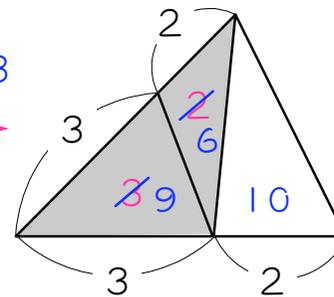
最も細かく分かれたところから考える

合体
→



5が3で割れないので、比を全部3倍してやり直し

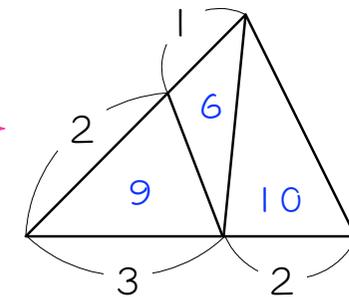
$\times 3$
→



$$6 + 9 = 15$$

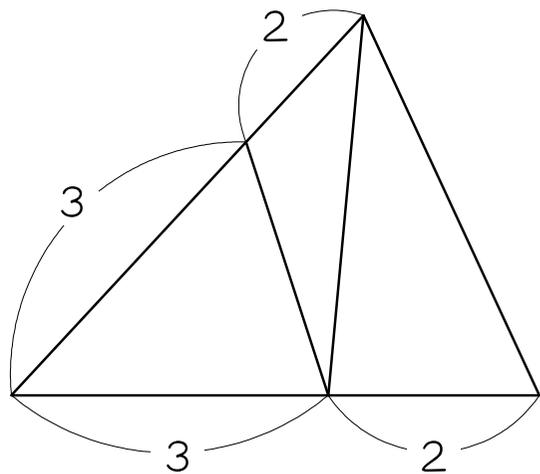
$$15 \times \frac{2}{3} = 10$$

→

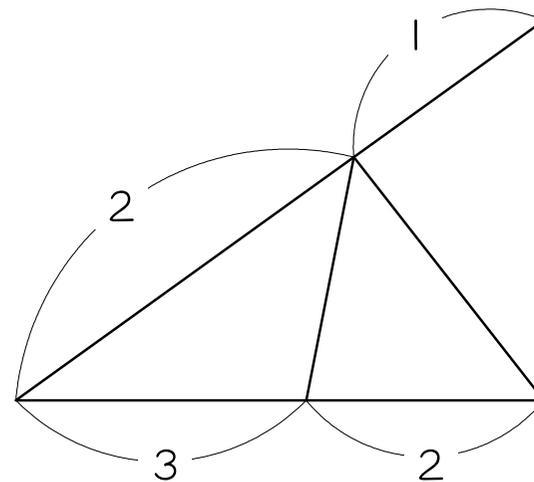


完成!

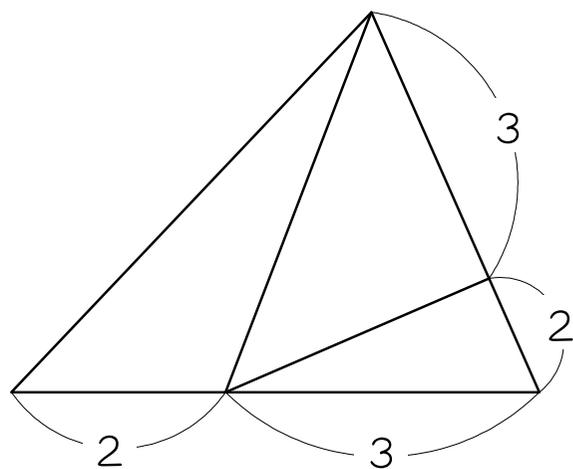
(1)



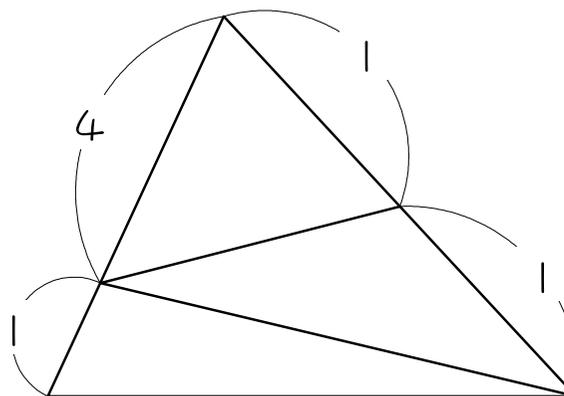
(2)



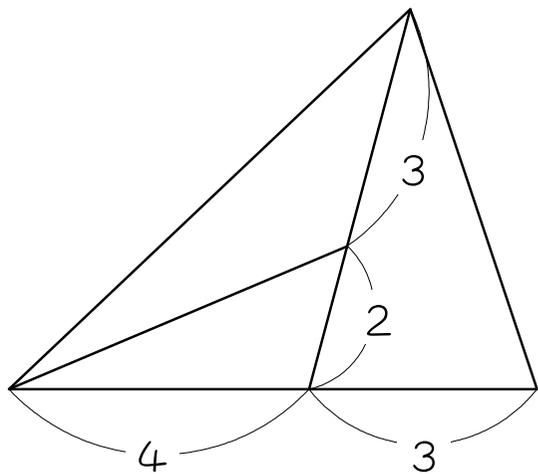
(3)



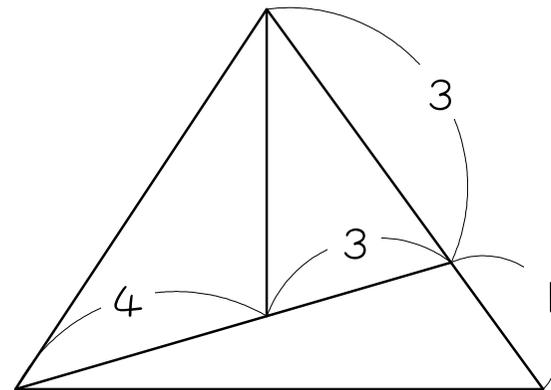
(4)



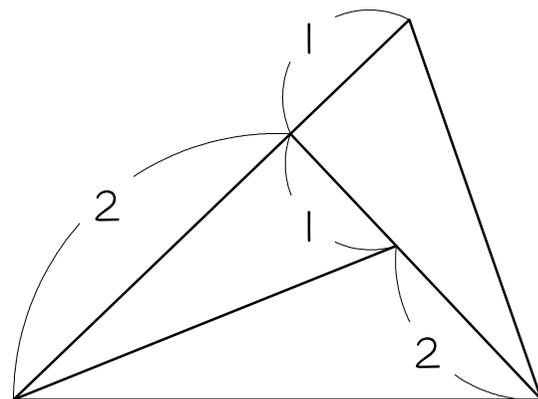
(5)



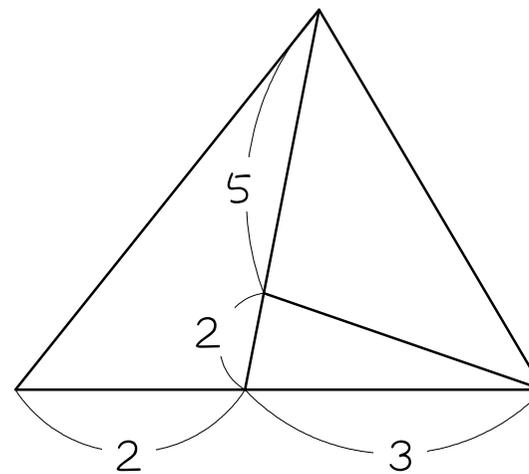
(6)



(7)



(8)

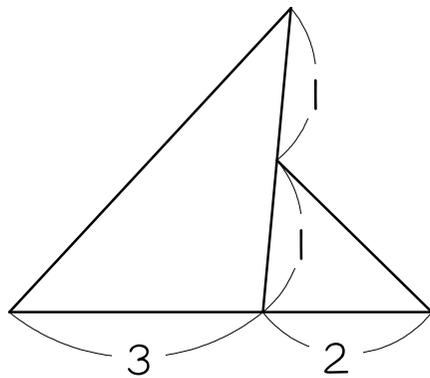


ステップ6 底辺の比×高さの比＝面積の比

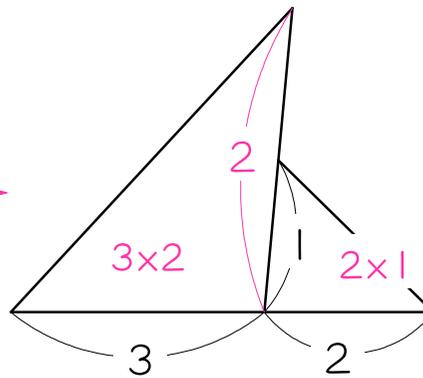
6

例にならって、各部分の面積比をかきこみなさい。

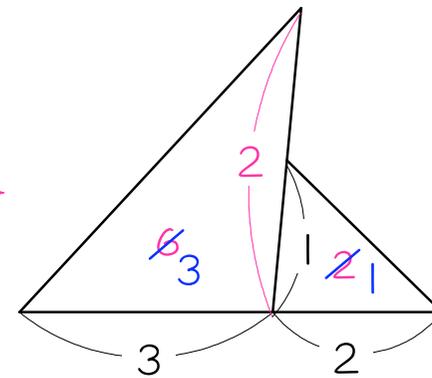
例)



2つの三角形は
 底辺の比 $3 : 2$
 高さの比 $2 : 1$

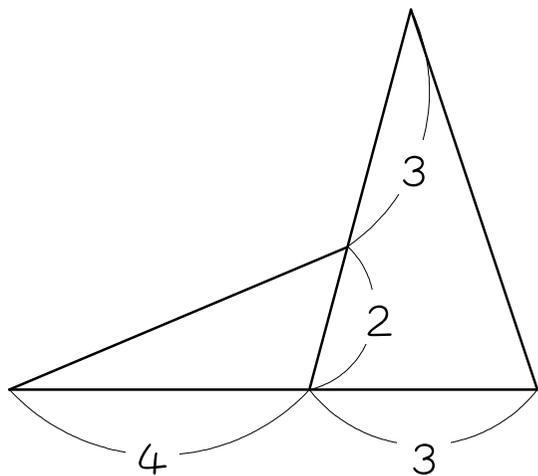


よって面積の比は
 $3 \times 2 = 6$
 $2 \times 1 = 2$

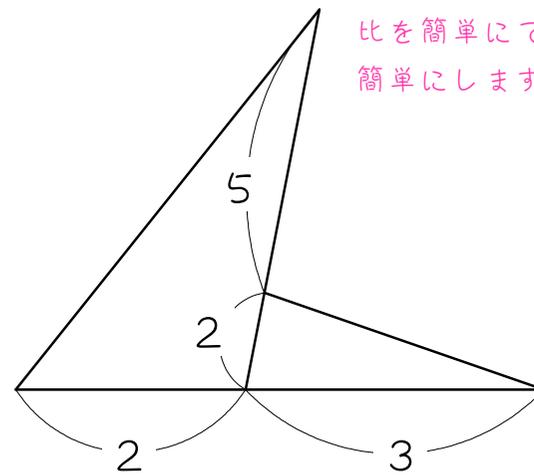


最後は比を簡単
 にして完成！

(1)

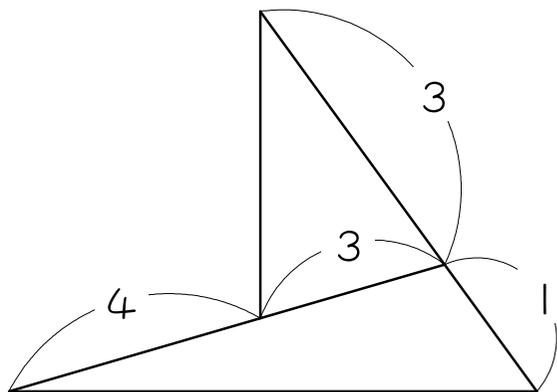


(2)

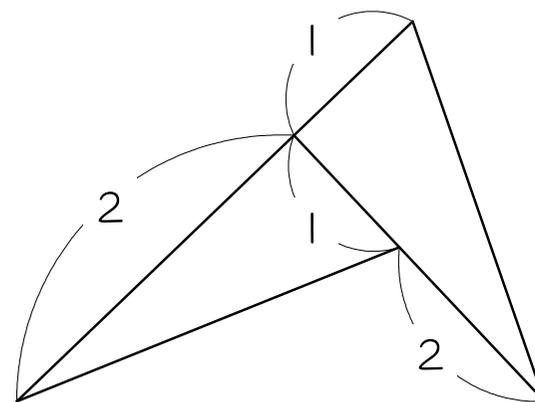


比を簡単にできるときは、
簡単にします。

(3)



(4)

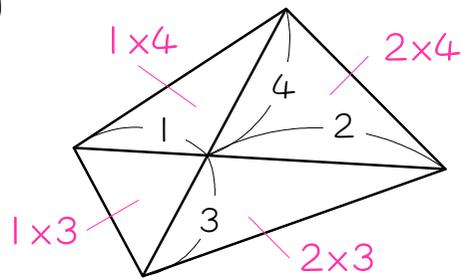


ステップ7 りんぺんひ 隣辺比 (となりどうしの辺の比) のかけ算

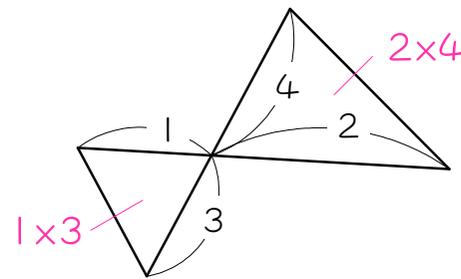
7

例にならって、各部分の面積比をかきこみなさい。

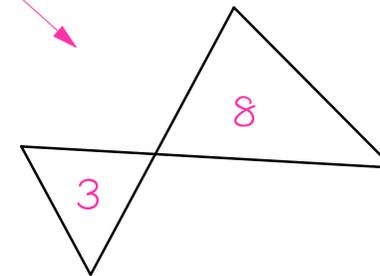
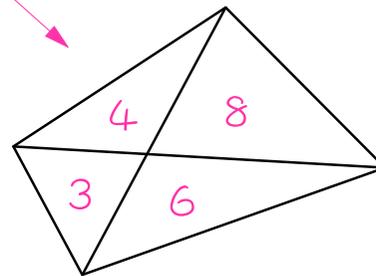
例



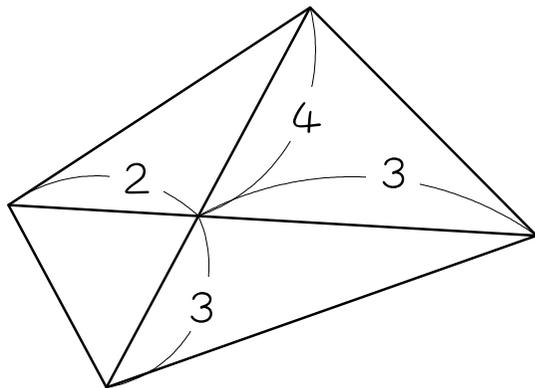
【たこ型】



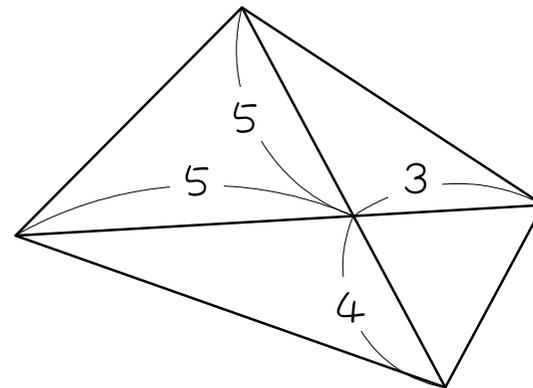
【リボン型】



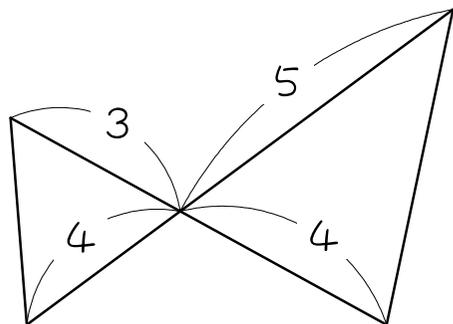
(1)



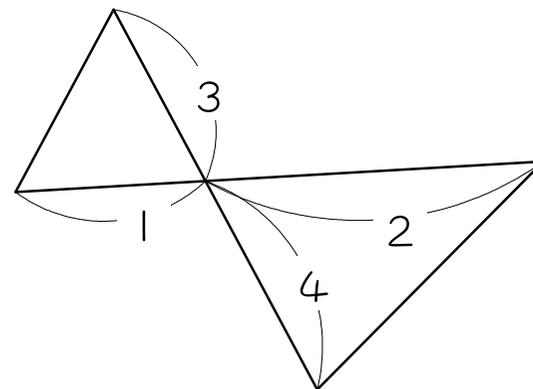
(2)



(3)



(4)

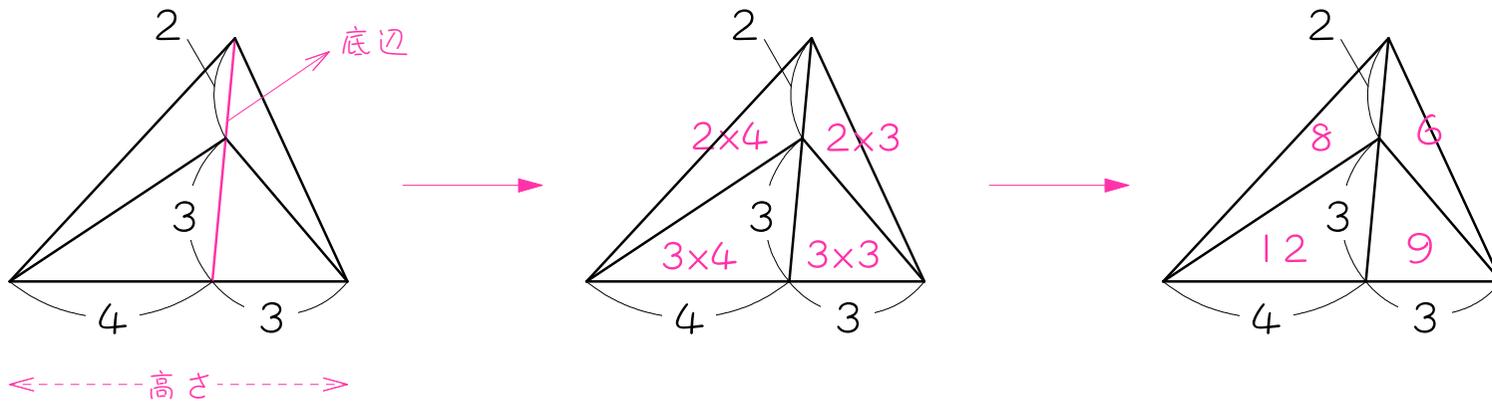


ステップ8 底辺と高さの位置を工夫する

8

例にならって、各部分の面積比をかきこみなさい。

例

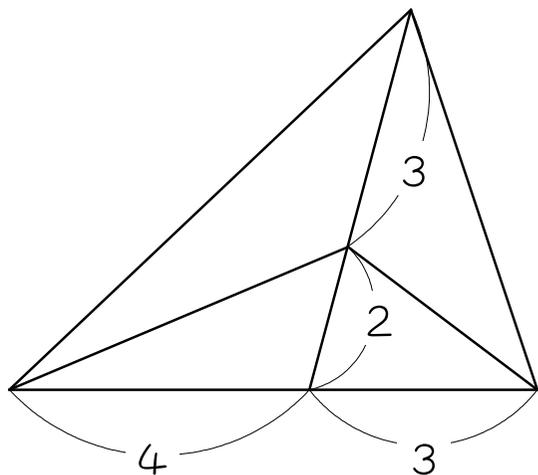


底辺と高さを図の
ように考えると、

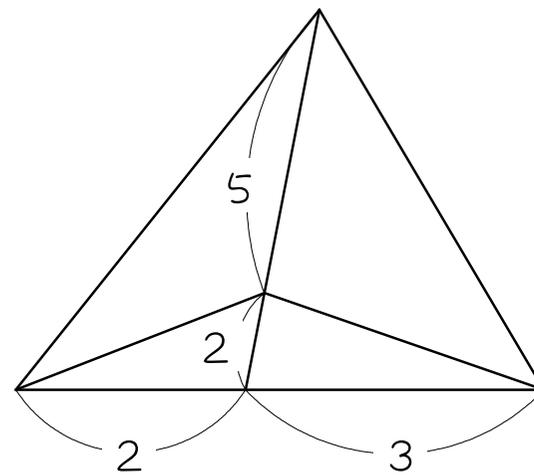
底辺の比×高さの比

完成！

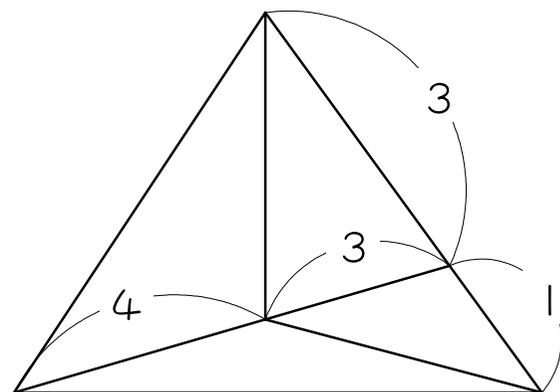
(1)



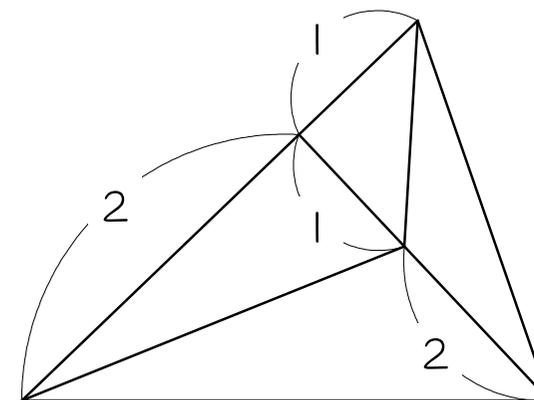
(2)



(3)



(4)

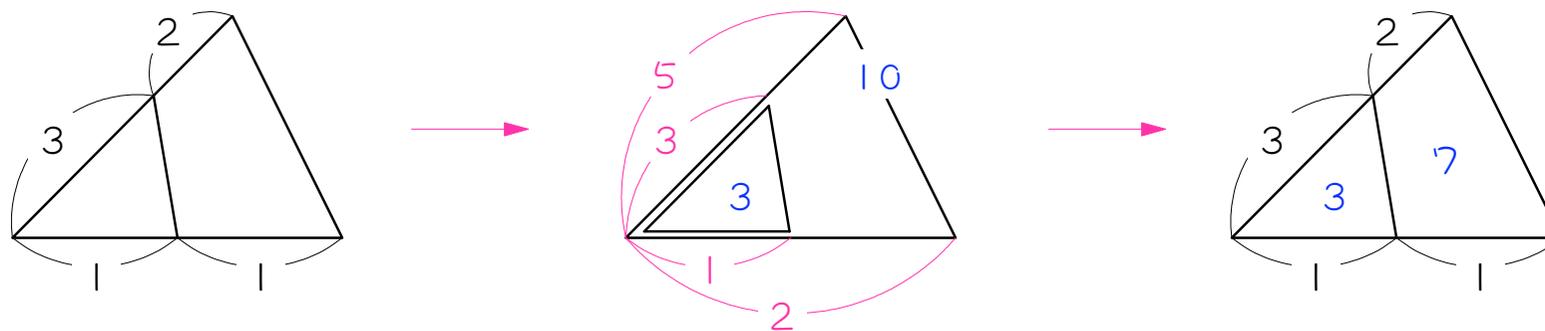


ステップ9 隣辺比のかけ算 & 最後に差をとる

9

例にならって、各部分の面積比をかきこみなさい。

例)



2つの三角形の面積比は、

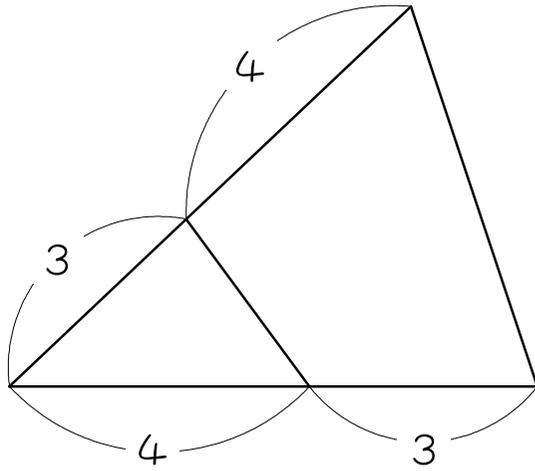
$$1 \times 3 = 3$$

$$2 \times 5 = 10$$

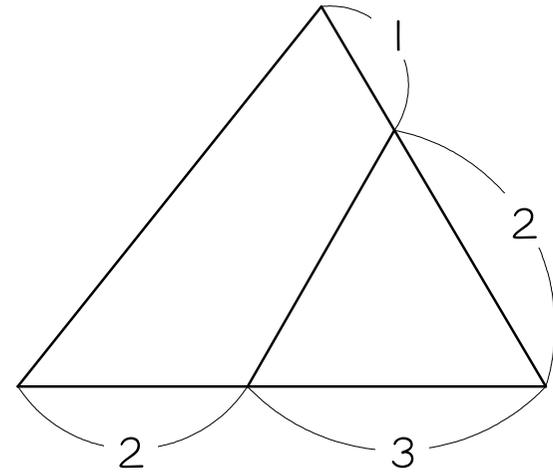
残った部分は、

$$10 - 3 = 7$$

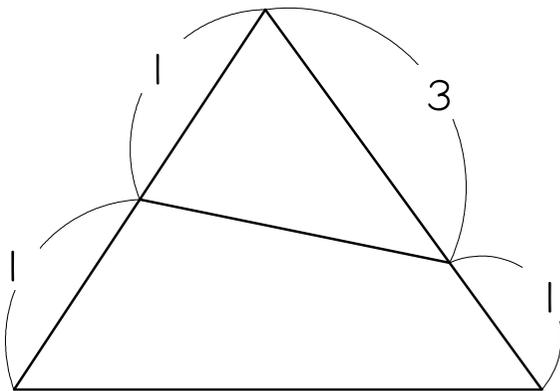
(1)



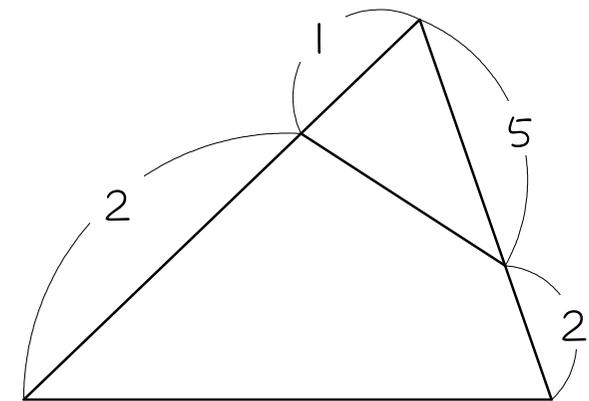
(2)



(3)



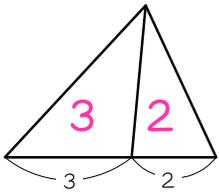
(4)



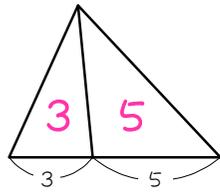
— 解答 —

1

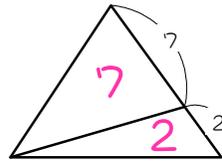
(1)



(2)

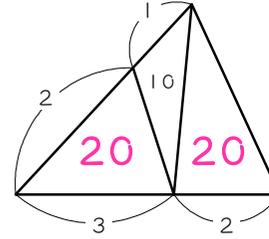


(3)

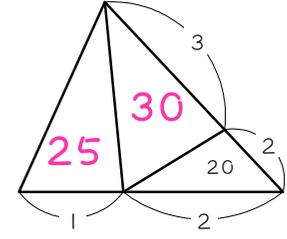


3

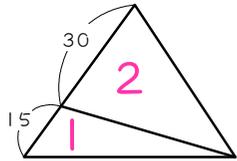
(1)



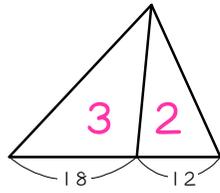
(2)



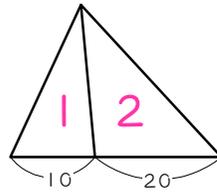
(4)



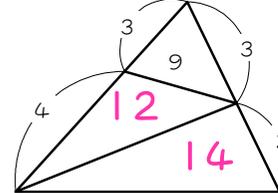
(5)



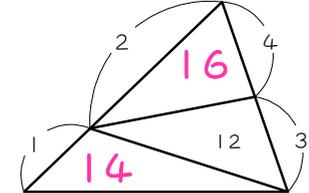
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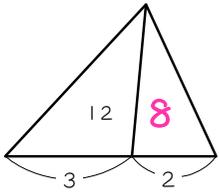


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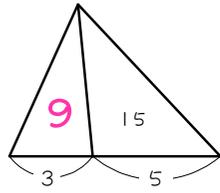


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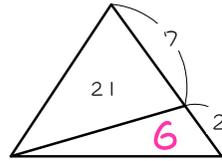
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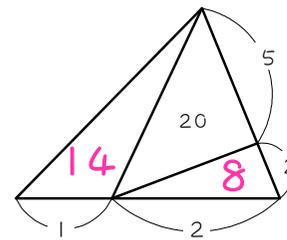
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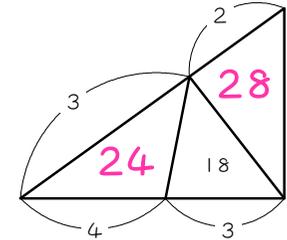
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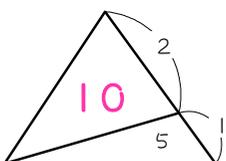
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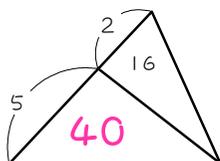
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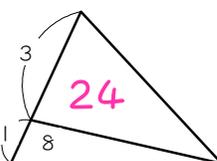
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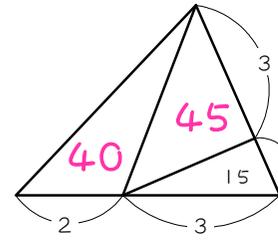
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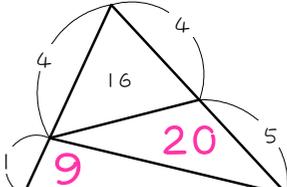
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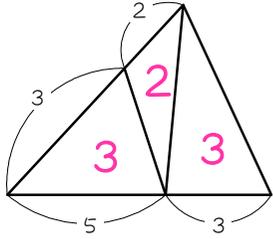
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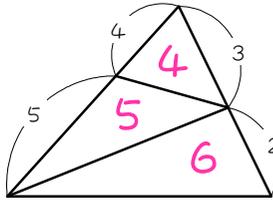
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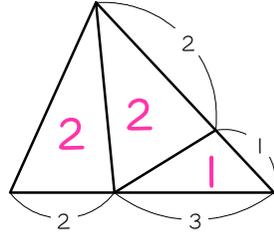
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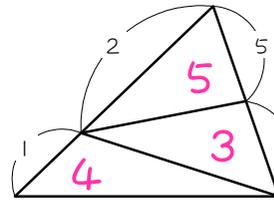
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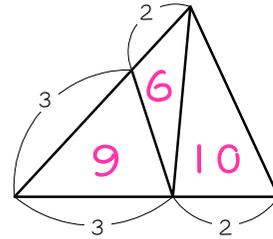
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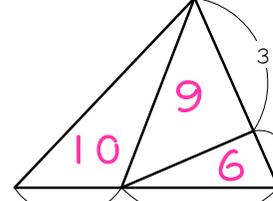
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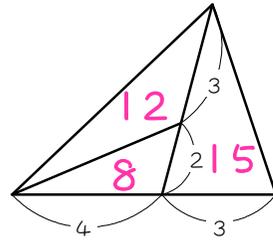
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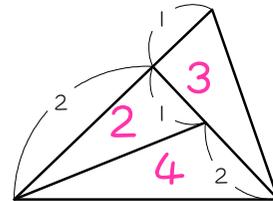
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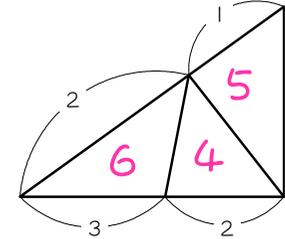
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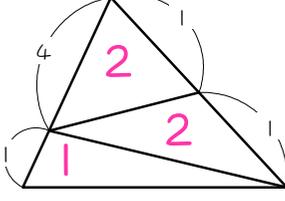
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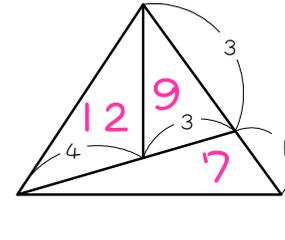
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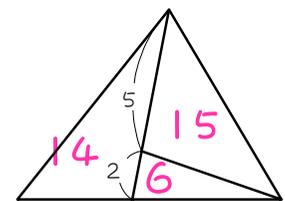
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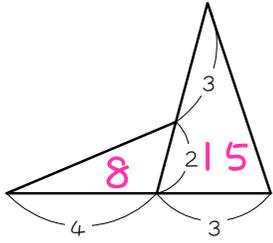
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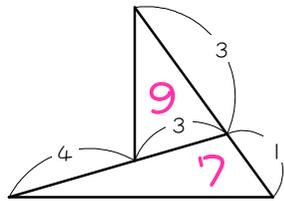
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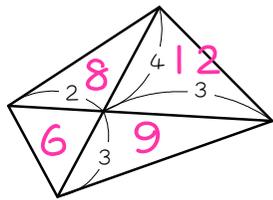
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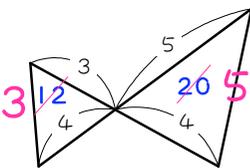
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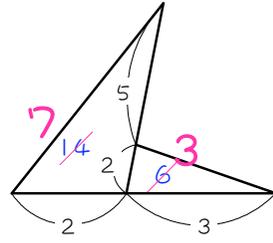
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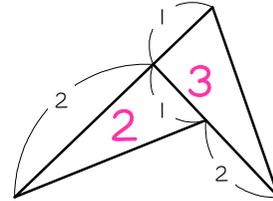
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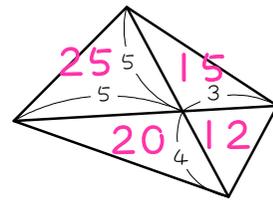
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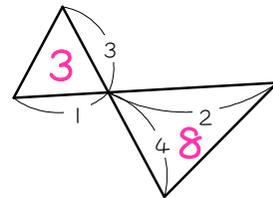
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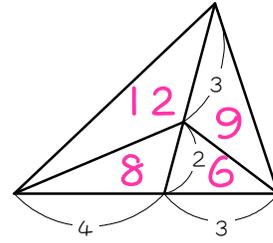
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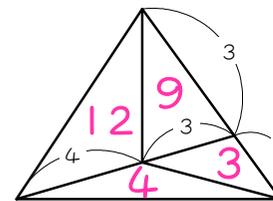
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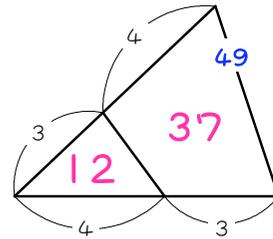
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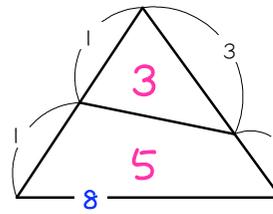
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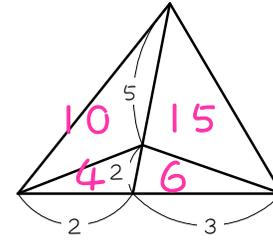
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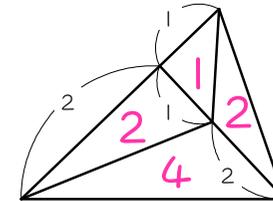
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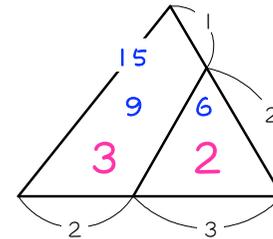
(2)



(4)



(2)



(4)

