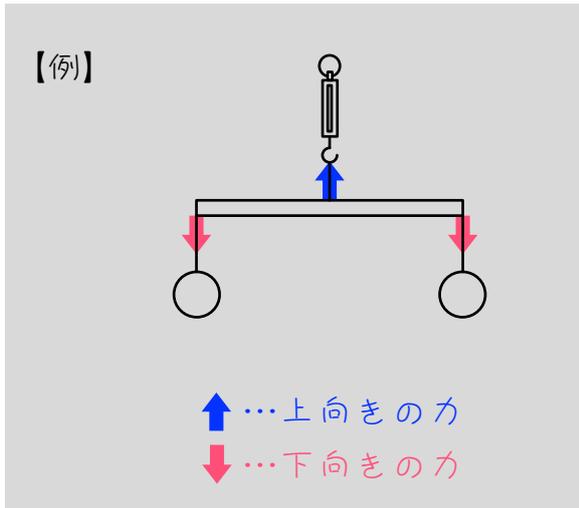


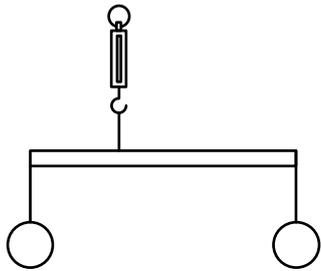
ステップ1 上向きのかと下向きのか

1

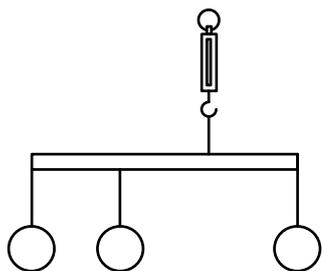
図のように棒が水平につり合っています。例にならって、棒にかかる力を書きこみなさい。ただし、棒やひもの重さは考えないものとします。



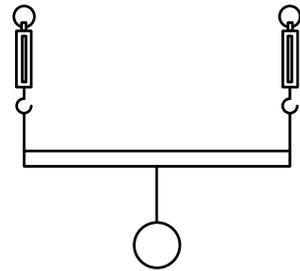
(1)



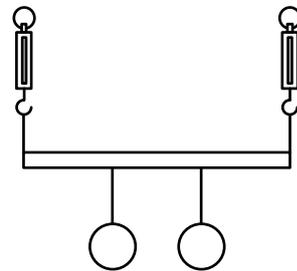
(2)



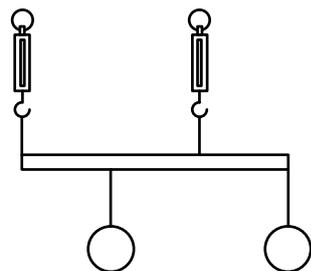
(3)



(4)

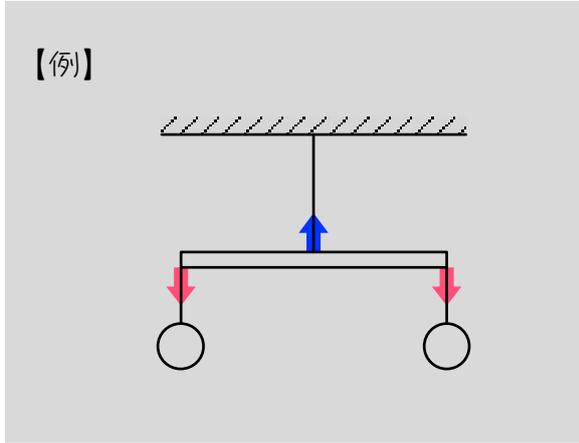


(5)

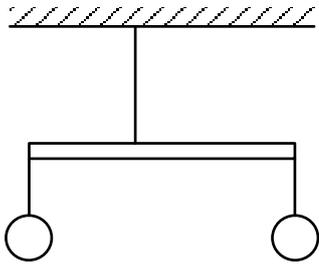


2

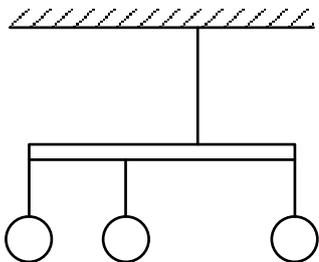
図のように棒が水平につり合っています。例にならって、棒にかかる力を書きこみなさい。ただし、棒やひもの重さは考えないものとします。



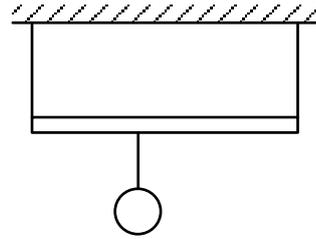
(1)



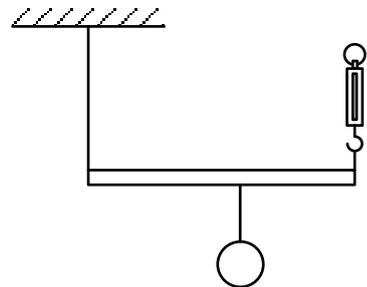
(2)



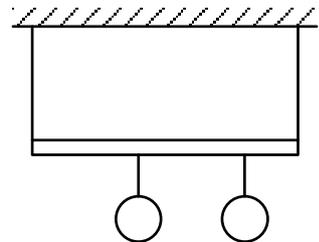
(3)



(4)

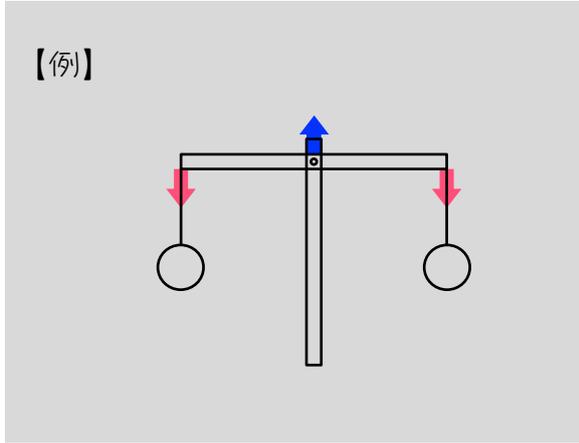


(5)

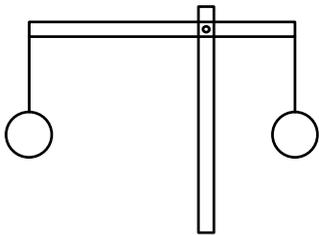


3

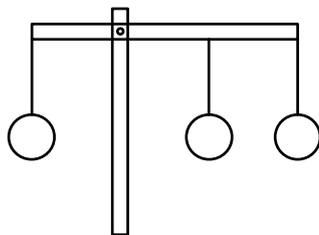
図のように棒が水平につり合っています。例にならって、にかかると書きこみなさい。ただし、棒やひもの重さは考えないものとします。



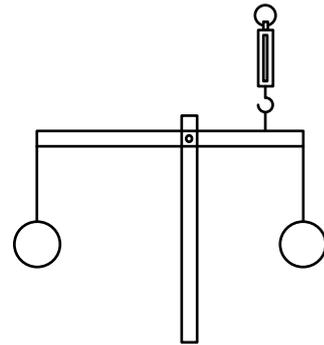
(1)



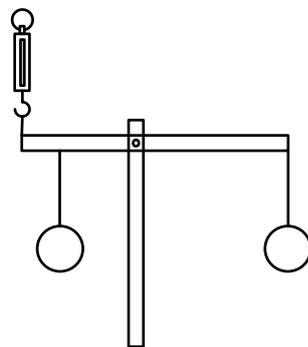
(2)



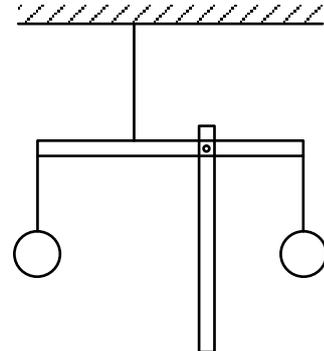
(3)



(4)

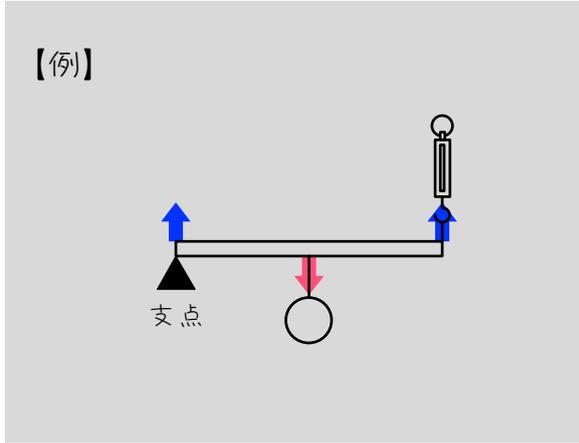


(5)

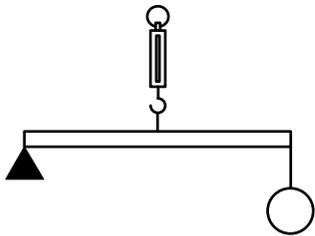


4

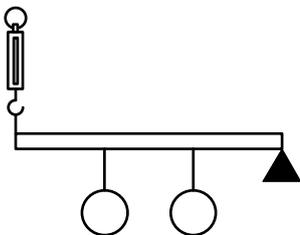
図のように棒が水平につり合っています。例にならって、棒にかかる力を書きこみなさい。ただし、棒やひもの重さは考えないものとします。



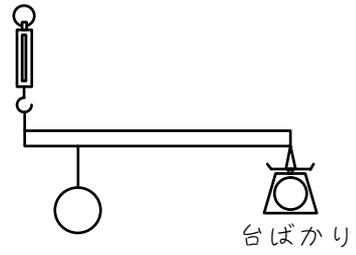
(1)



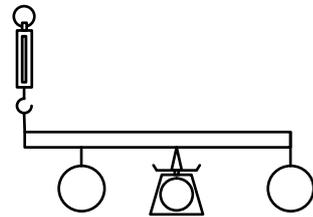
(2)



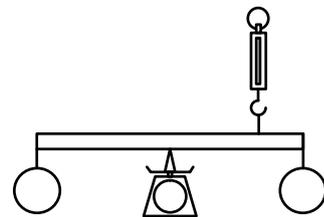
(3)



(4)

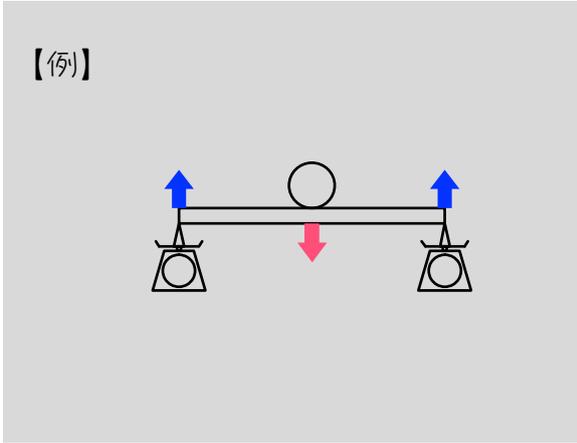


(5)

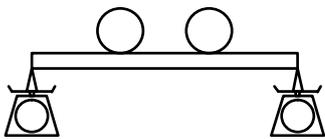


5

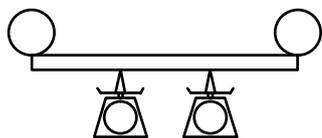
図のように棒が水平につり合っています。例にならって、棒にかかる力を書きこみなさい。ただし、棒やひもの重さは考えないものとします。



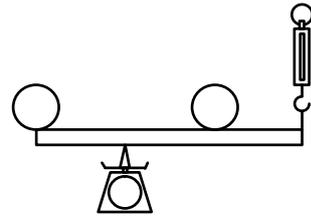
(1)



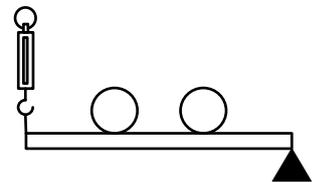
(2)



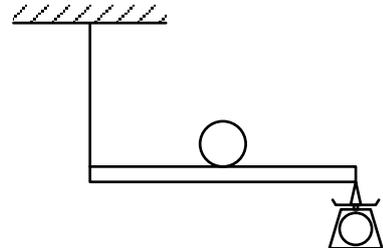
(3)



(4)



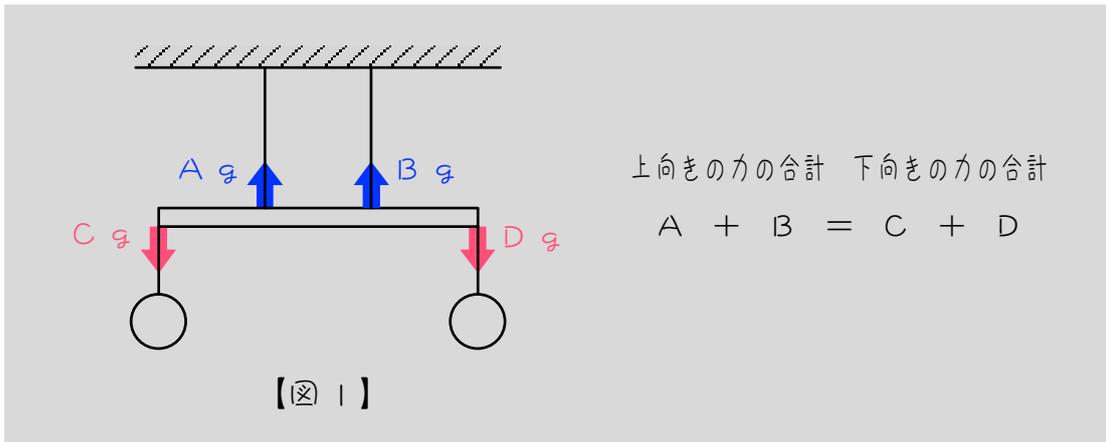
(5)



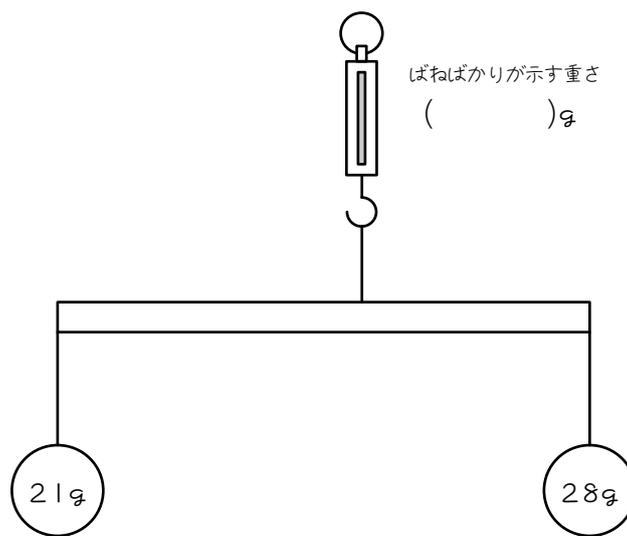
ステップ2 上向きのかの合計 = 下向きのかの合計

6

図1のように、マコが水平につりあって静止しています。このとき、「上向きのかの合計 = 下向きのかの合計」が必ず成り立ちます。



いま、図2のように棒が水平につりあっているとき、ばねばかりが示す重さを求めなさい。ただし、棒やひもの重さは考えないものとします。

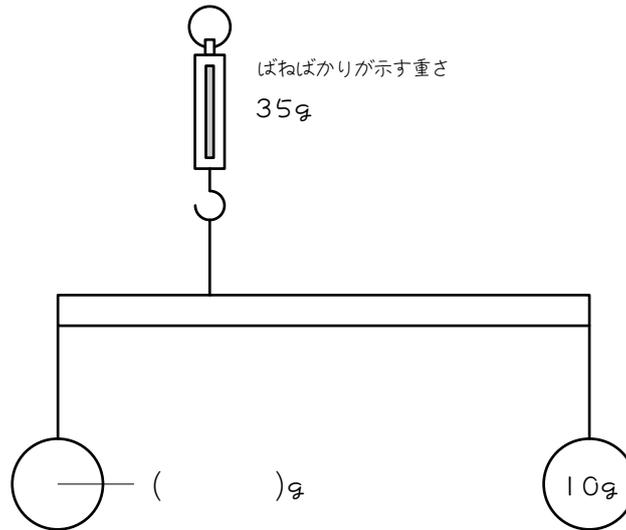


【図2】

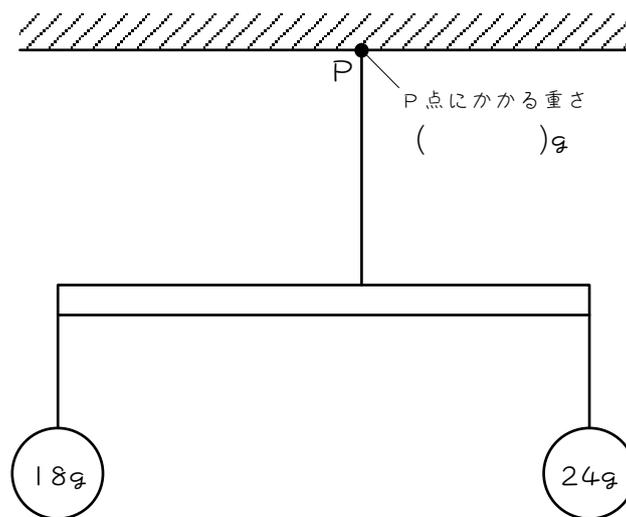
7

図のように棒が水平につりあっているとき、() にあてはまる数を求めなさい。ただし、棒やひもの重さは考えないものとします。

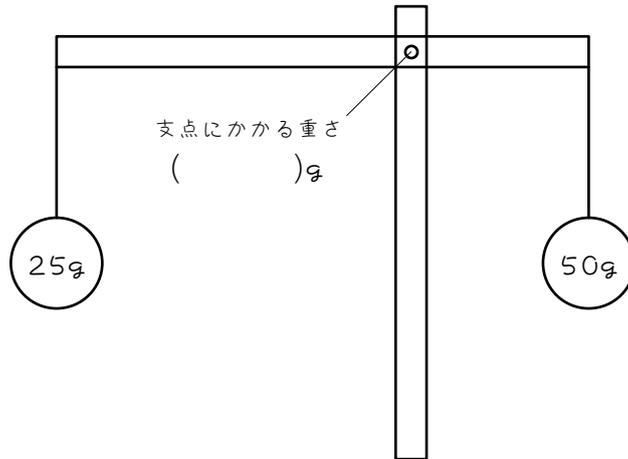
(1)



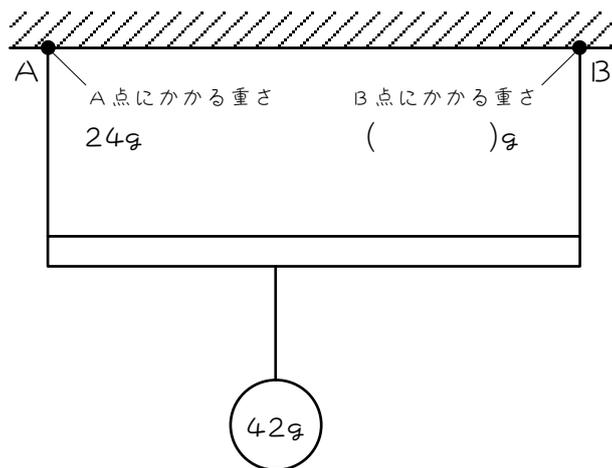
(2)



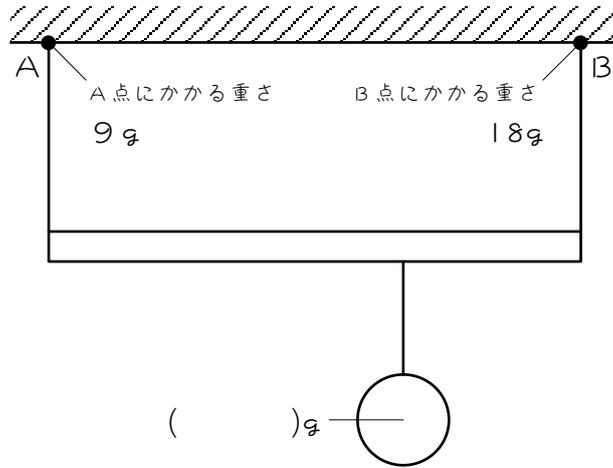
(3)



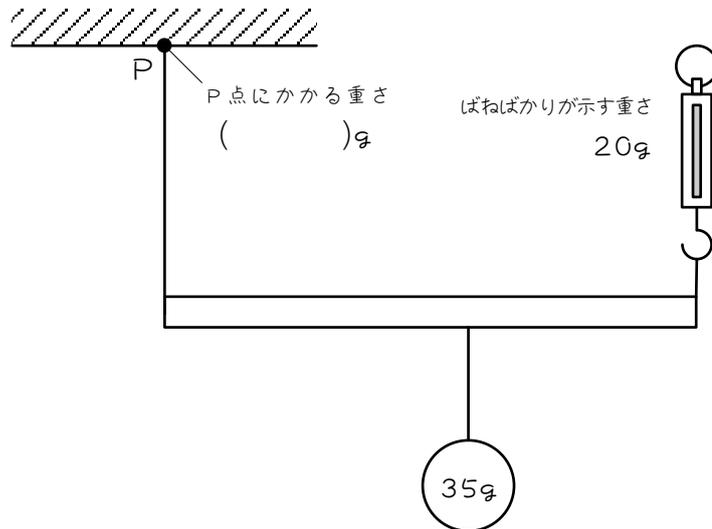
(4)



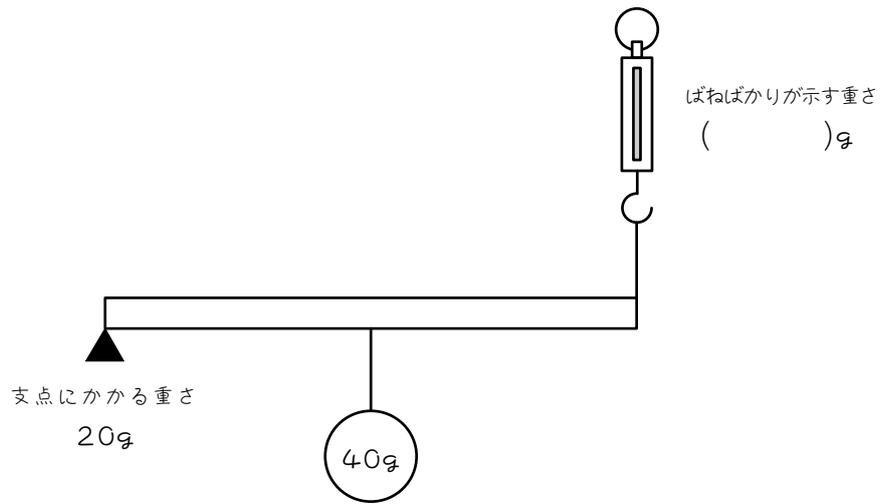
(5)



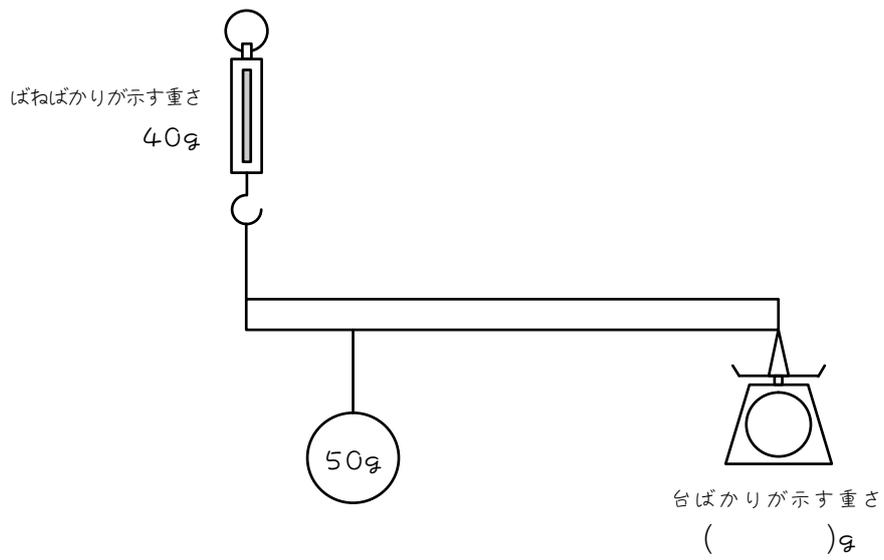
(6)



(7)



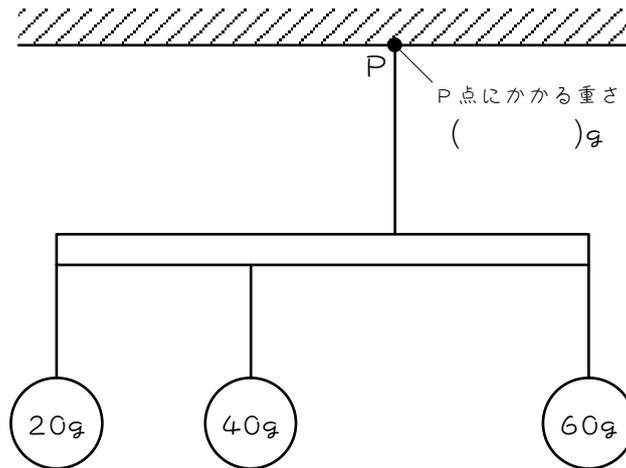
(8)



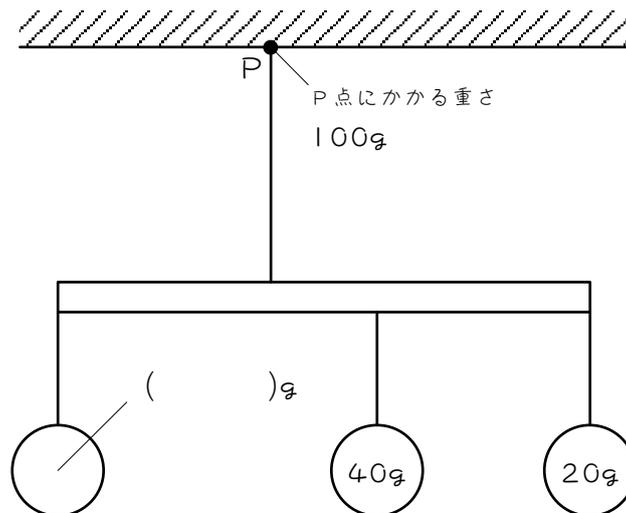
8

図のように棒が水平につりあっているとき、() にあてはまる数を求めなさい。ただし、棒やひもの重さは考えないものとします。

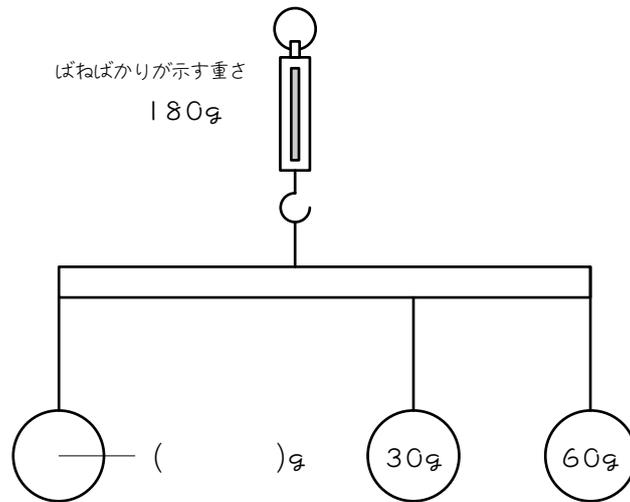
(1)



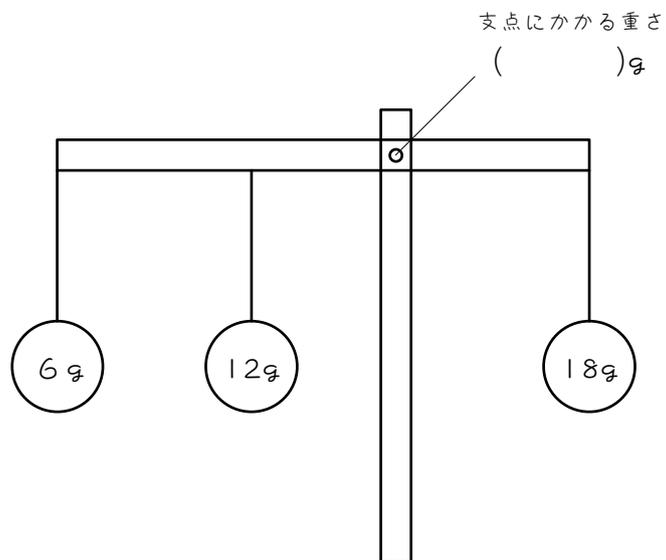
(2)



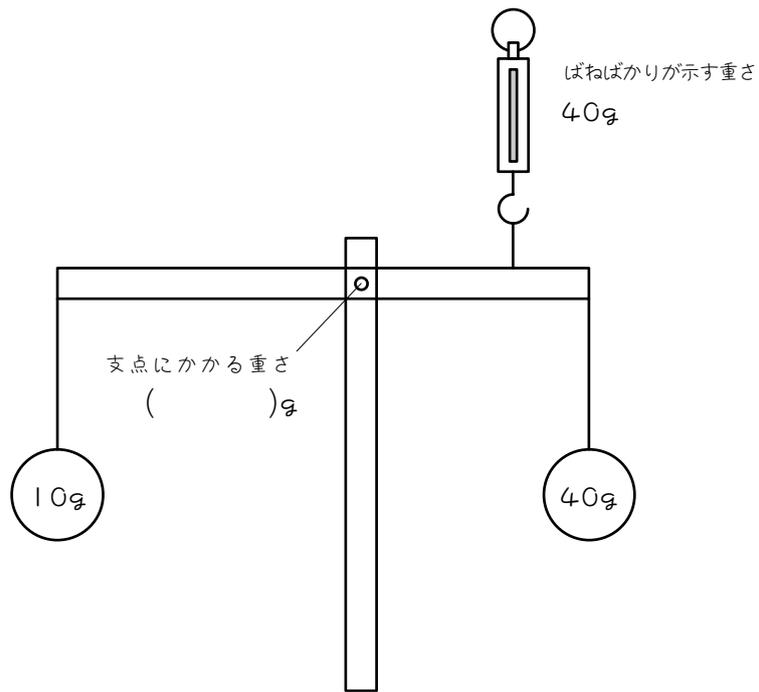
(3)



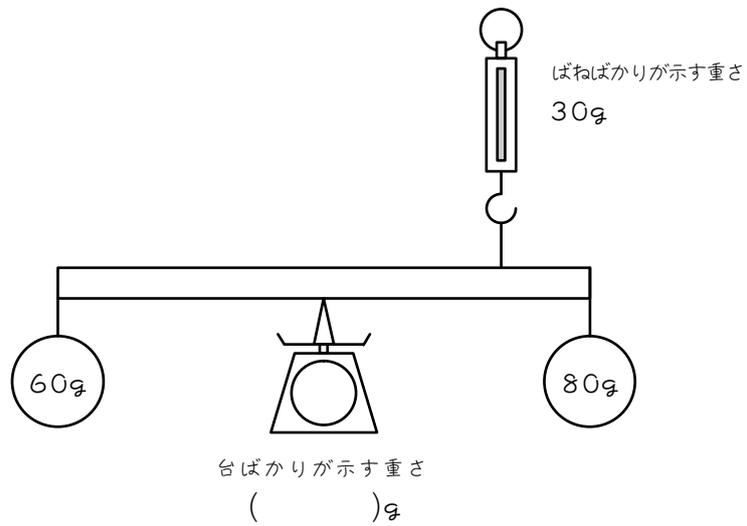
(4)



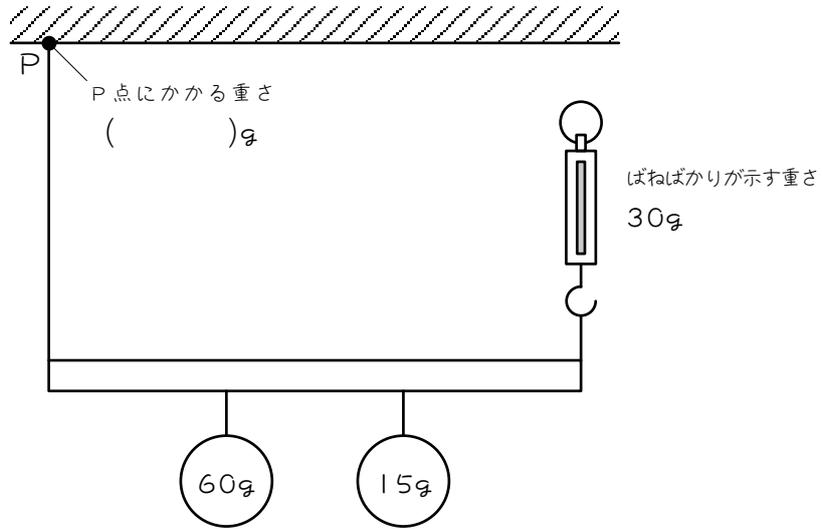
(5)



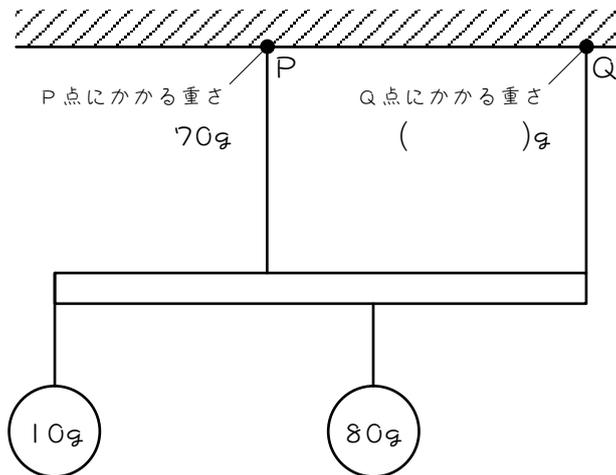
(6)



(7)

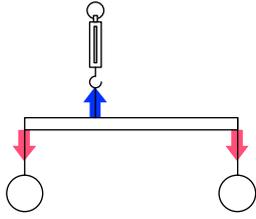


(8)

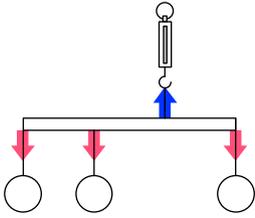


■ 解答 ■

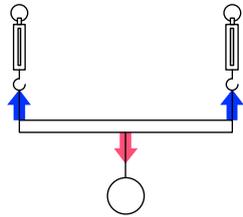
1 (1)



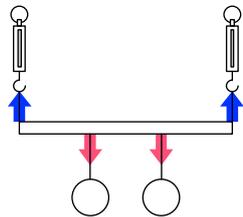
(2)



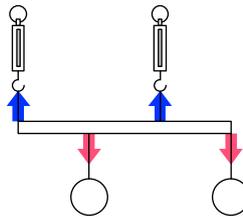
(3)



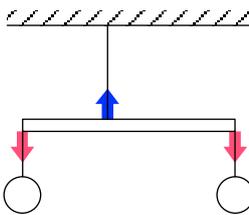
(4)



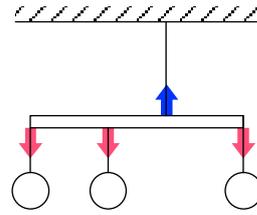
(5)



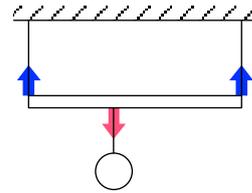
2 (1)



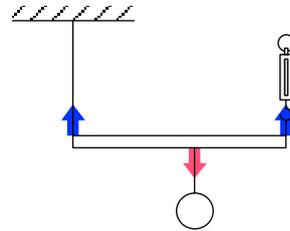
(2)



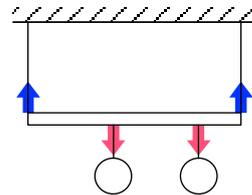
(3)



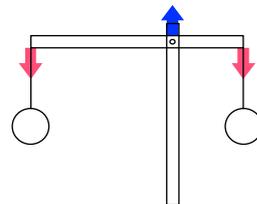
(4)



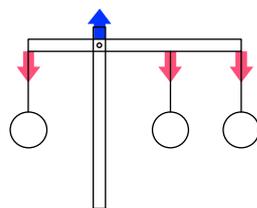
(5)



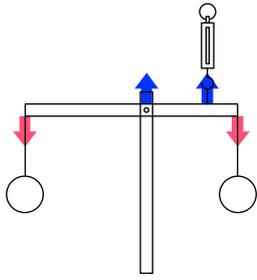
3 (1)



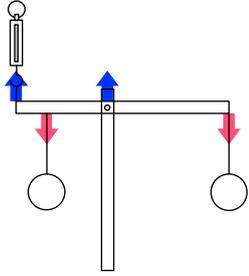
(2)



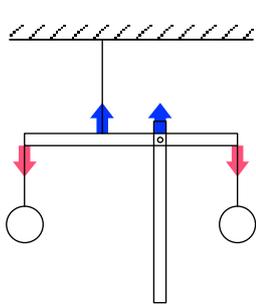
(3)



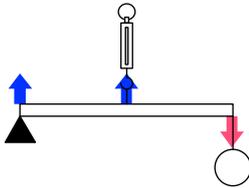
(4)



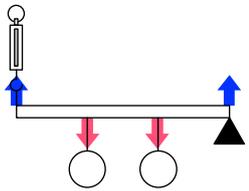
(5)



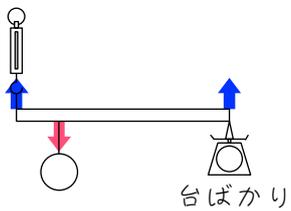
4 (1)



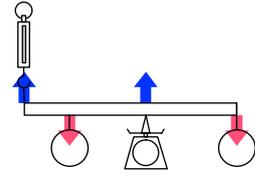
(2)



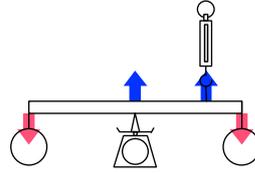
(3)



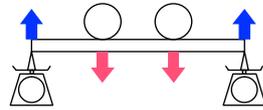
(4)



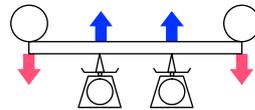
(5)



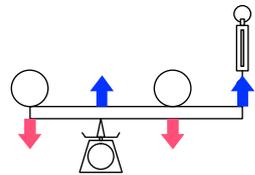
5 (1)



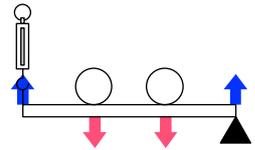
(2)



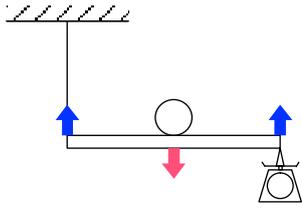
(3)



(4)



(5)



6 49

7 (1) 25 (2) 42
 (3) 75 (4) 18
 (5) 27 (6) 15
 (7) 20 (8) 10

8 (1) 120 (2) 40
 (3) 90 (4) 36
 (5) 10 (6) 110
 (7) 45 (8) 20