

てこの基本計算 I

目標時間

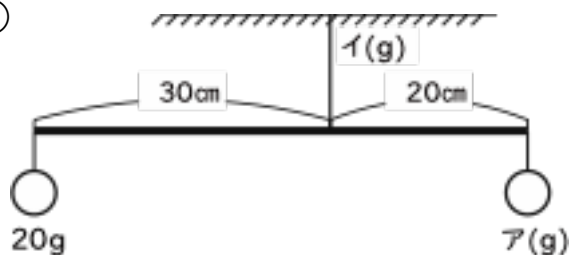
8分

NO.1

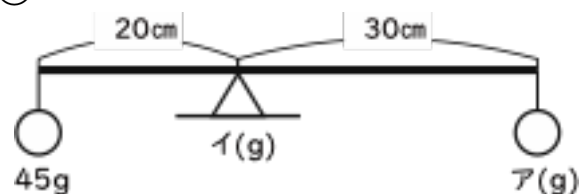
名前

■ 次の図のように、棒が水平につり合っています。ア、イ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。

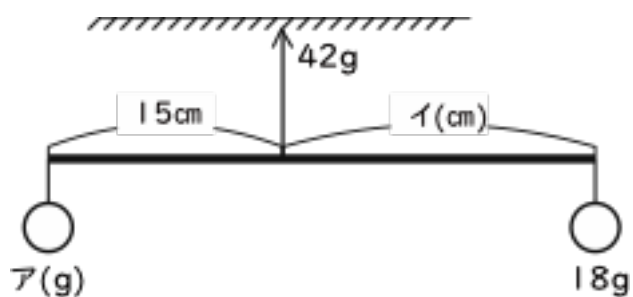
①



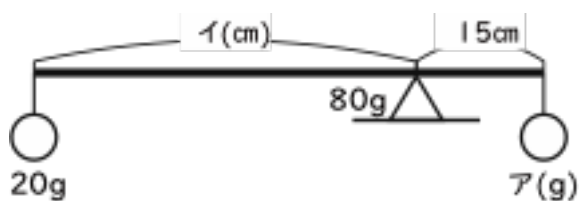
②



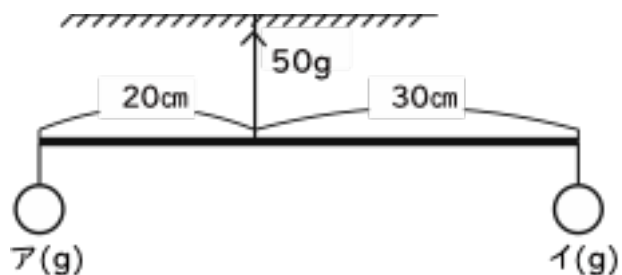
③



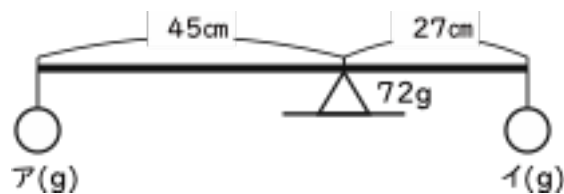
④



⑤



⑥



答え

$$\textcircled{1} \quad 30 : 20 = 3 : 2$$

$$\rightarrow 2 : 3 = 20 : \text{ア} \quad \text{ア} = \underline{30 \text{ g}}$$

$$\text{イ} = 20 + 30 = \underline{50 \text{ g}}$$

$$\textcircled{2} \quad 20 : 30 = 2 : 3$$

$$\rightarrow 3 : 2 = 45 : \text{ア} \quad \text{ア} = 45 \div 3 \times 2 \\ = \underline{30 \text{ g}}$$

$$\text{イ} = 45 + 30 = \underline{75 \text{ g}}$$

$$\textcircled{3} \quad \text{ア} = 42 - 18 = \underline{24 \text{ g}}$$

$$24 : 18 = 4 : 3$$

$$\rightarrow 3 : 4 = 45 : \text{イ}$$

$$\text{イ} = 15 \div 3 \times 4 \\ = \underline{20 \text{ cm}}$$

$$\textcircled{4} \quad \text{ア} = 80 - 20 = \underline{60 \text{ g}}$$

$$20 : 60 = 1 : 3$$

$$\rightarrow 3 : 1 = \text{イ} : 15$$

$$\text{イ} = 15 \div 1 \times 3 \\ = \underline{45 \text{ cm}}$$

$$\textcircled{5} \quad 20 : 30 = 2 : 3$$

$$\rightarrow 3 : 2 = \text{ア} : \text{イ}$$

$$\text{ア} = 50 \div 5 \times 3 \\ = \underline{30 \text{ g}}$$

50 g を 3 : 2 にわけるので

$$\text{イ} = 50 \div 5 \times 2 \\ = \underline{20 \text{ g}}$$

$$\textcircled{6} \quad 45 : 27 = 5 : 3$$

$$3 : 5 = \text{ア} : \text{イ}$$

$$\text{ア} = 72 \div 8 \times 3 \\ = \underline{27 \text{ g}}$$

72 g を 3 : 5 にわけるので

$$\text{イ} = 72 \div 8 \times 5 \\ = \underline{45 \text{ g}}$$