

BJ 3

1

41%



4個: $7回 + 1回 + 7回 = 15回$

5個: $15回 + 1回 + 15回 = 31回$

規則性

2, 3, 4, 5 ...

3, 7, 15, 31 ...

$\Rightarrow \underline{2^n - 1}$

6個:

$31 + 1 + 31$

$= 63$

BJ3 2 41%

少ない個数で考え、規則を見つける

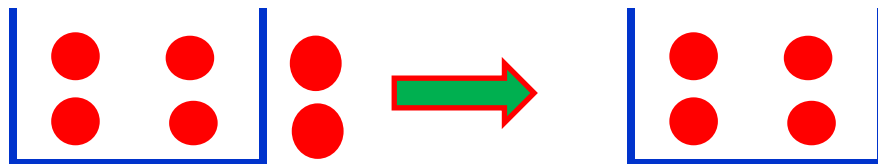
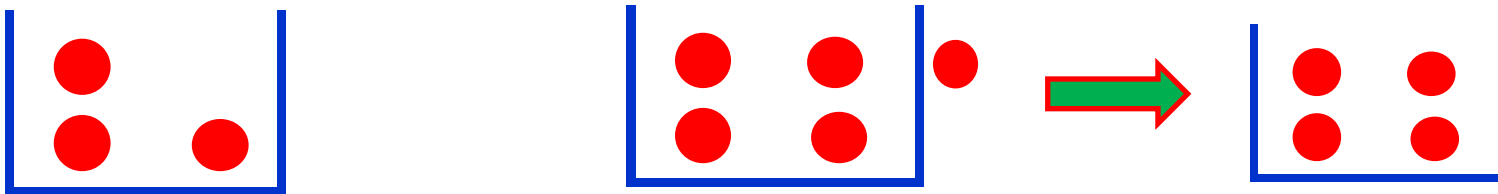
Aが取るとき、場が**1～3個**であれば勝つ

5個の場合、Aは先に1個取り4個を残す

Bが1～3個の何個でも、**残りが1～3個**となりAが勝つ

6個の場合、先に2個取り**4の倍数**残す

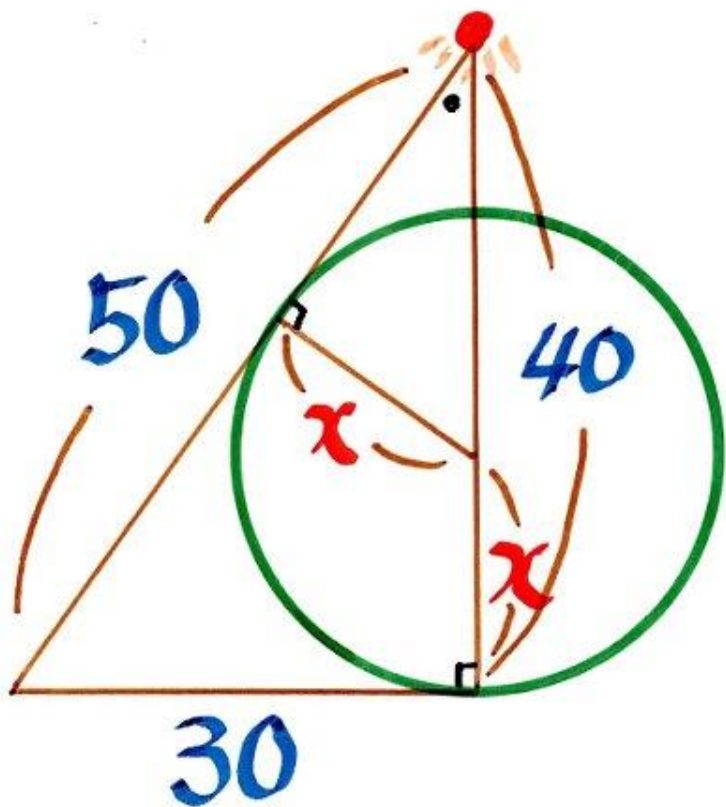
Bが1～3個を取ると、残り3～1個でAが勝つ



BJ3 5 43%

円の面積 = $\pi \times$ 半径 \times 半径

$$900\pi = \pi \times 30 \times 30$$



$$\frac{50}{30} = \frac{40 - x}{x}$$

$$50x = 1200 - 30x$$

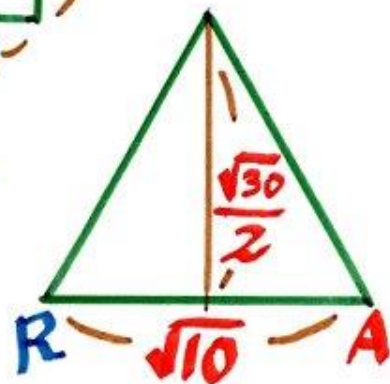
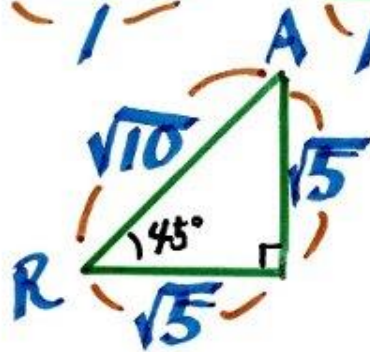
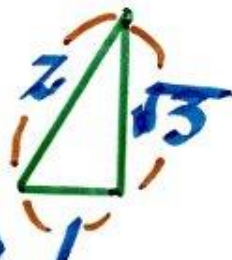
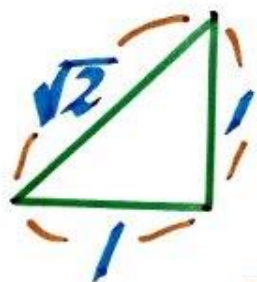
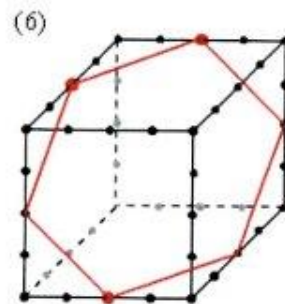
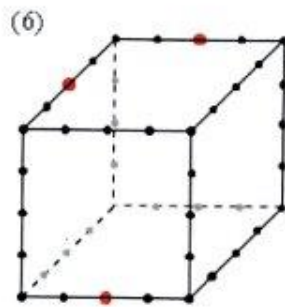
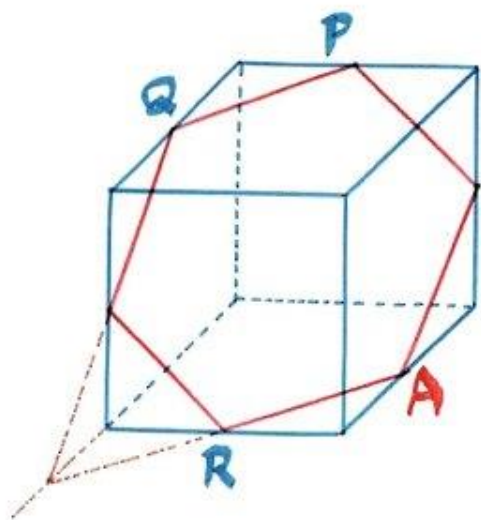
$$x = 15$$

$$\text{直径} = 15 \times 2$$

$$= \underline{\underline{30 \text{ cm}}}$$

BJ3 6 39%

切斷面: 正六角形



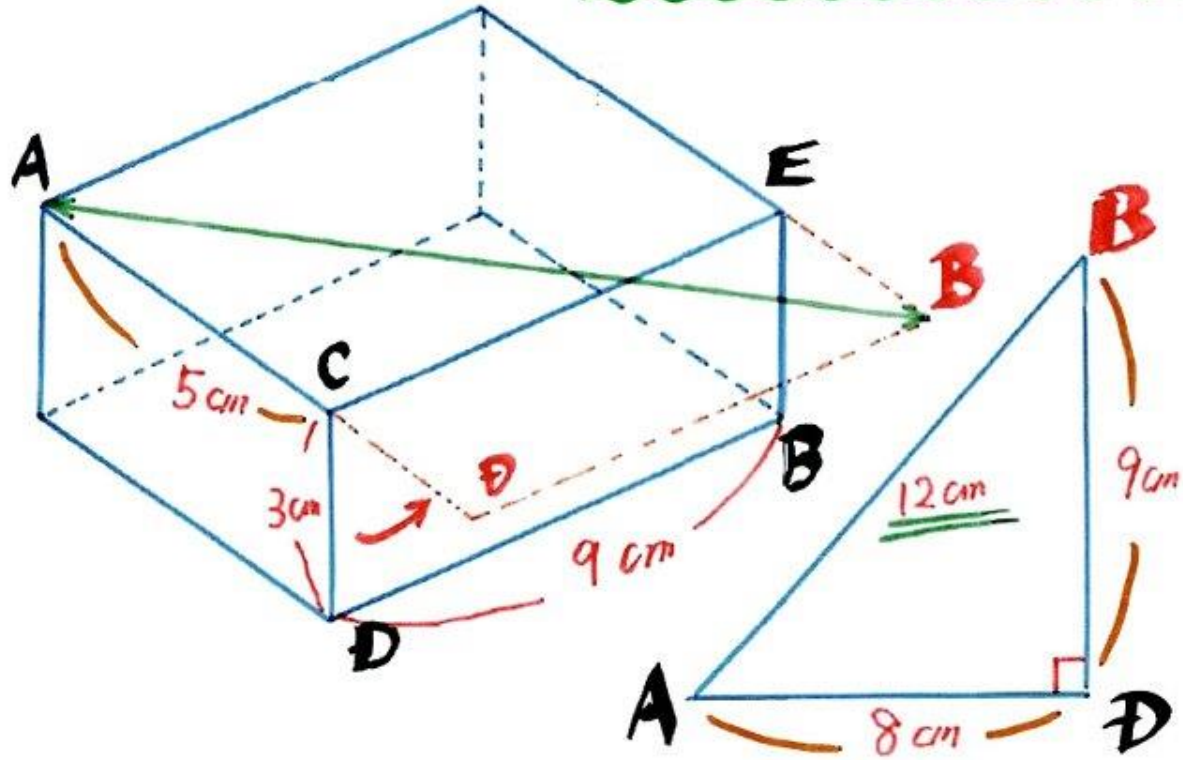
$$\frac{\sqrt{10} \times \frac{\sqrt{30}}{2} \div 2 \times 6}{}$$

$$= \frac{300}{2} \times 3 = \underline{15\sqrt{3}}$$

6個分

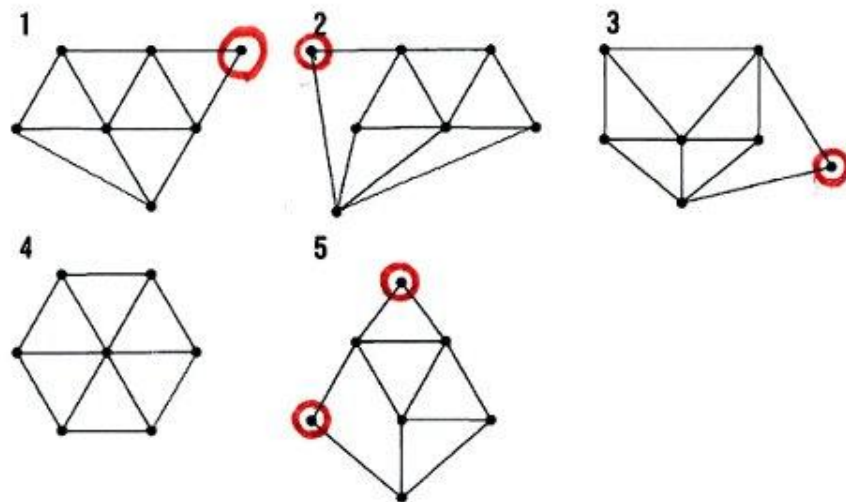
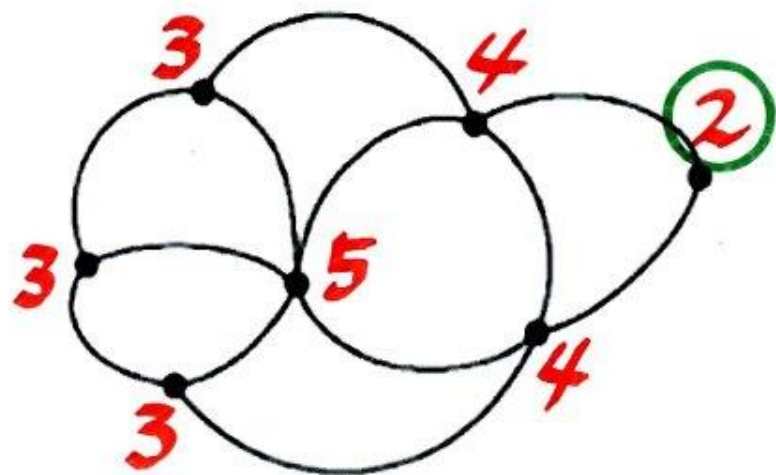
BJ39 41%

展開図で検討



$$AB = \sqrt{8^2 + 9^2} = \sqrt{145} \approx \underline{\underline{12 \text{ cm}}}$$

BJ3 10 73%

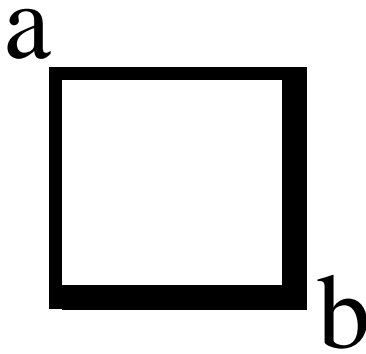


交点の線の数とつながっている交点の線の数を選択肢と対比

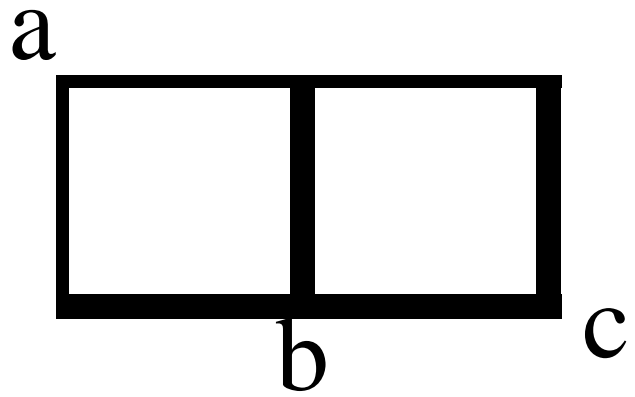
交点線2は右端の1箇所のみ ⇒ 4, 5除外

交点線2は, 交点線4の二つとつながり, この交点線4は直接結ばれる ⇒ 1のみ該当

BJ3 1 2 61%



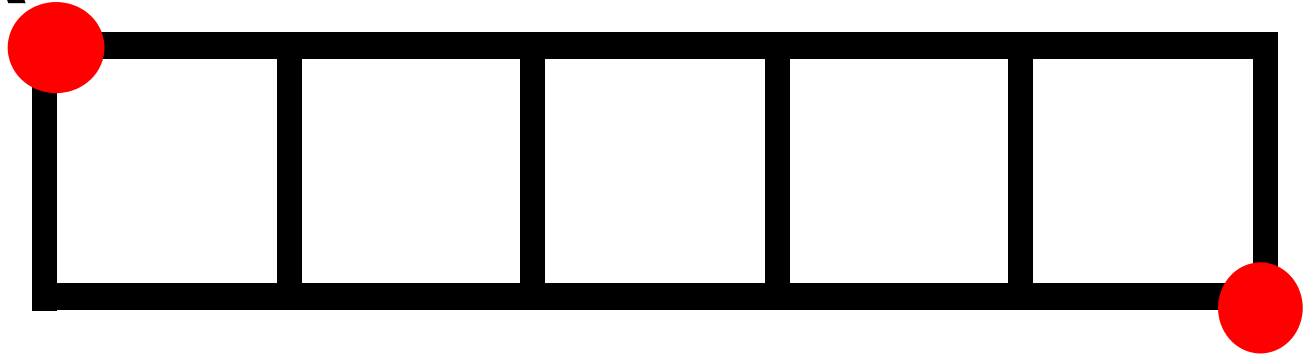
aからbは
2通り



aからcは, bからcが2通りで
 $2 \times 2 = 4$ 通り

A

同様に, AからBは, $2 \times 2 \times 2 \times 2 \times 2 = 32$ 通り



B