

例3

0 1 2 3 4 5 6 7コ

白 $\boxed{1\sim 6}$ + $\boxed{0\sim 6}$ - $\boxed{0,2,4,6}$

(ア) 一の位が「0」: 白は6コ, 十は残りの5コ \Rightarrow $6 \times 5 = 30$

(イ) 一の位が「2」: 白は2,0以外5コ, 十は0も含み5コ

$\Rightarrow 5 \times 5 = 25$

一の位が「4」「6」も同じ $\Rightarrow 25 \times 3 =$ 75

$30 + 75 =$ 105

BJ2 4

0 1 2 3 4 5

百 $\boxed{1\sim5}$ + $\boxed{0\sim5}$ - $\boxed{0\sim5}$

百

| | | | |
|------|-------|---------|-----|
| 1 | 0.2~5 | 2~5 | } 5 |
| 2~5個 | 5コ | 4コ = 20 | |
| | " | " | ⋮ |

$100 + 200 + \dots$
 $\dots 500 = 1500$
 $1500 \times 20 = 30,000$

+

| | | |
|------------|-----|-------------------|
| 4コ (0と+除く) | 1~5 | 4コ (0含む) |
| | | $4 \times 4 = 16$ |

$10 + 20 + \dots + 50 = 150$
 $150 \times 16 = 2,400$

-

| | | |
|------------|------------|-----|
| 4コ (0と-除く) | 4コ (百と-除く) | 1~5 |
|------------|------------|-----|

$1 + 2 + \dots + 5 = 15$
 $15 \times 16 = 240$

$30000 + 2400 + 240 = \underline{\underline{32640}}$

BJ2

7

27%

赤2, 白3,

期待値

| | 1 | 2 | 3 |
|---|---------------|-----------------|-----------------|
| 白 | $\frac{3}{5}$ | | |
| 赤 | $\frac{2}{5}$ | 白 $\frac{3}{4}$ | |
| 赤 | $\frac{2}{5}$ | 赤 $\frac{1}{4}$ | 白 $\frac{3}{3}$ |

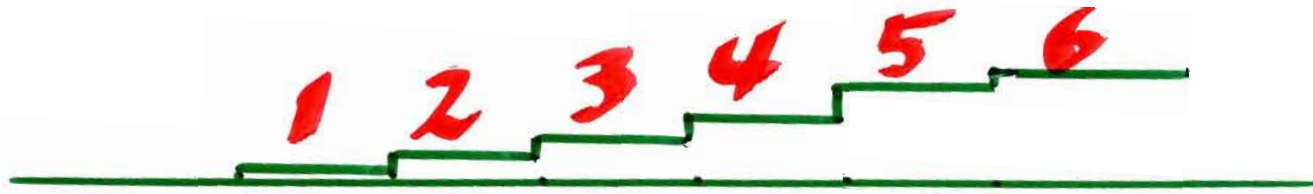
$$1 \times \frac{3}{5} = \frac{3}{5}$$

$$2 \times \frac{2}{5} \times \frac{3}{4} = \frac{3}{5}$$

$$3 \times \frac{2}{5} \times \frac{1}{4} \times \frac{3}{3} = \frac{3}{10}$$

$$\frac{3}{5} + \frac{3}{5} + \frac{3}{10} = \frac{15}{10} = \underline{\underline{1.5}}$$

BT2 8 37%



3段1と1段 1113, 1131, 1311, 3111 (4)

3(1)と2(1)と1 123, 132, 213, 231, 312, 321 (6)

3(2) 33 (1)

2(1)と1 1112, 1121, 11211, 12111, 21111 (5)

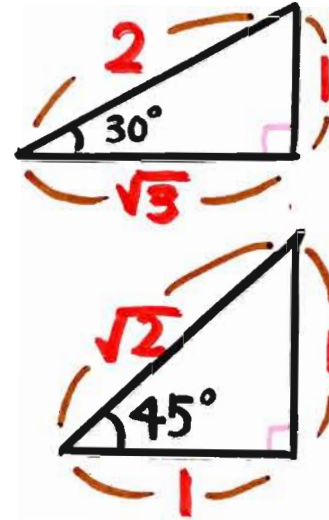
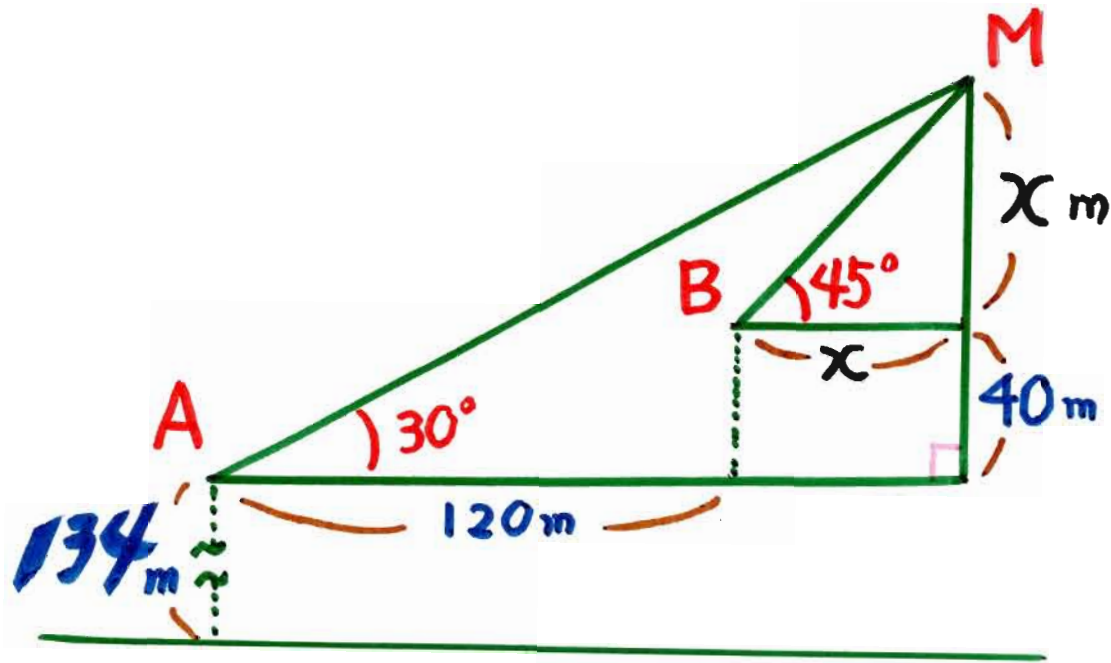
2(2)と1 1122, 1212, 1221, 2112, 2121, 2211 (6)

2(3) 222 (1)

1(6) 111111 (1)

⇒ 24

BJ2 9 50%



$$\frac{x+40}{120+x} = \frac{1}{\sqrt{3}} \Rightarrow \sqrt{3}x + 40\sqrt{3} = 120 + x$$
$$\Rightarrow (\sqrt{3}-1)x = 40(3-\sqrt{3})$$
$$\Rightarrow x = \frac{40(3-\sqrt{3})(\sqrt{3}+1)}{(\sqrt{3}-1)(\sqrt{3}+1)} = 40\sqrt{3} = 69.2$$

山Mの標高: $134 + 40 + 69.2 = \underline{\underline{243}}$