

$$\frac{4!}{3!2!} = 6$$

$$\frac{4!}{2!} = 12$$

$$\frac{4!}{1!} = 24$$

$$\frac{4!}{0!} = 24$$

$$\frac{4!}{1!} = 24$$

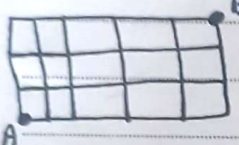
$$\frac{4!}{2!} = 12$$

$$\frac{4!}{3!} = 4$$

$$\frac{4!}{4!} = 1$$

$$111/112/113/123/233/331$$

$$\Rightarrow 4 + 3 + 2 + 1 = 10$$



$$\binom{4}{2} \binom{4}{2} = \frac{4 \times 3}{2} \times \frac{4 \times 3}{2} = 9$$

$$\frac{4!}{3!1!} = \frac{4 \times 3 \times 2}{3} = 4$$

$$\binom{4}{1} = 4$$

$$\frac{3!}{2!1!} + \frac{3!}{1!2!} + \frac{3!}{1!1!1!} = \frac{3 \times 2}{2} + \frac{3 \times 2}{2} + \frac{3 \times 2 \times 1}{1} = 3 + 3 + 6 = 12$$

$$12 - (4 + 3 + 2 + 1) = 12 - 10 = 2$$

$$12 - (4 + 3 + 2 + 1) = 2$$

$$12 - (4 + 3 + 2 + 1) = 2$$

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