Math worksheet on *'Probability Counting - Ways to Letters, 2 Repeats - to Factorial Equation (Level 1)'*. broader unit on *'Probability and Statistics - Binomial Intro'*

Learn online:

app.mobius.academy/math/units/probability_and_statistics_probability_with_binomial

**1**

| I | Q | D |
|---|---|---|
| Q | I | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{5! \cdot 0!}$ **b** $\frac{5!}{2! \cdot 2!}$

**c** $\frac{5!}{2! \cdot 2! \cdot 2!}$ **d** $\frac{5!}{2! \cdot 4!}$

**e** $\frac{4!}{2! \cdot 2!}$ **f** $\frac{5!}{4! \cdot 2!}$

**2**

| Z | W | Z |
|---|---|---|
| U | W | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{2! \cdot 3!}$ **b** $\frac{3!}{2! \cdot 2!}$

**c** $\frac{7!}{2! \cdot 2! \cdot 2!}$ **d** $\frac{5!}{5! \cdot 0!}$

**e** $\frac{5!}{2! \cdot 2!}$ **f** $\frac{5!}{3! \cdot 2!}$

**3**

| N | N | E |
|---|---|---|
| E | E | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{5! \cdot 0!}$ **b** $\frac{7!}{3! \cdot 2!}$

**c** $\frac{3!}{3! \cdot 2!}$ **d** $\frac{5!}{3! \cdot 2!}$

**e** $\frac{5!}{3! \cdot 3!}$ **f** $\frac{5!}{4! \cdot 2!}$

**4**

| F | F | O |
|---|---|---|
| O | A | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{6!}{2! \cdot 2! \cdot 2!}$ **b** $\frac{5!}{2! \cdot 2!}$

**c** $\frac{5!}{5! \cdot 0!}$ **d** $\frac{5!}{4! \cdot 2!}$

**e** $\frac{7!}{4! \cdot 2! \cdot 2!}$ **f** $\frac{5!}{2! \cdot 3!}$

**5**

| R | L | Z |
|---|---|---|
| Z | L | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{3! \cdot 2!}$ **b** $\frac{5!}{2! \cdot 4!}$

**c** $\frac{5!}{2! \cdot 2!}$ **d** $\frac{5!}{5! \cdot 0!}$

**e** $\frac{3!}{2! \cdot 2!}$

**6**

| C | C | P |
|---|---|---|
| C | P | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{5! \cdot 0!}$ **b** $\frac{5!}{3! \cdot 2!}$

**c** $\frac{7!}{3! \cdot 2!}$ **d** $\frac{5!}{4! \cdot 2!}$

**e** $\frac{5!}{5! \cdot 2!}$

**7**

| E | V | P |
|---|---|---|
| P | V | |

How many distinct ways can these letter tiles be ordered? Show as a factorial.

**a** $\frac{5!}{5! \cdot 0!}$ **b** $\frac{5!}{3! \cdot 2!}$

**c** $\frac{5!}{2! \cdot 4!}$ **d** $\frac{5!}{2! \cdot 2!}$

**e** $\frac{3!}{2! \cdot 2!}$ **f** $\frac{7!}{4! \cdot 2! \cdot 2!}$