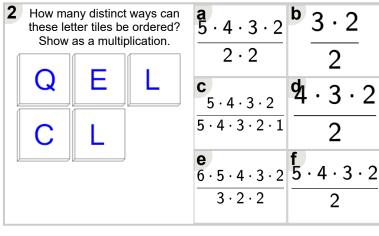**mobiu** (logo)

Math worksheet on *'Probability Counting - Ways to O... Letters, 1 Repeat - to Equation (Level 1)'*. Part of a br... unit on *'Probability and Statistics - Probability wit... Factorials Practice'*

Learn online:
app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

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

Tiles: B B B A T

a) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2\cdot2}$
b) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2\cdot3\cdot2}$
c) $\dfrac{7\cdot6\cdot5\cdot4\cdot3\cdot2}{3\cdot2}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
e) $\dfrac{5\cdot4\cdot3\cdot2}{4\cdot3\cdot2}$
f) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2}$

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

Tiles: Q E L C L

a) $\dfrac{5\cdot4\cdot3\cdot2}{2\cdot2}$
b) $\dfrac{3\cdot2}{2}$
c) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
d) $\dfrac{4\cdot3\cdot2}{2}$
e) $\dfrac{6\cdot5\cdot4\cdot3\cdot2}{3\cdot2\cdot2}$
f) $\dfrac{5\cdot4\cdot3\cdot2}{2}$

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

Tiles: O J O N O

a) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2}$
b) $\dfrac{4\cdot3\cdot2}{3\cdot2}$
c) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$

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

Tiles: D Q D H F

a) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
b) $\dfrac{5\cdot4\cdot3\cdot2}{2\cdot2}$
c) $\dfrac{7\cdot6\cdot5\cdot4\cdot3\cdot2}{2\cdot2}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{2}$
e) $\dfrac{7\cdot6\cdot5\cdot4\cdot3\cdot2}{4\cdot3\cdot2\cdot2}$
f) $\dfrac{4\cdot3\cdot2}{2}$

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

Tiles: C A C L C

a) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2}$
b) $\dfrac{5\cdot4\cdot3\cdot2}{4\cdot3\cdot2}$
c) $\dfrac{3\cdot2}{3\cdot2}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2}$
e) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
f) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2\cdot2}$

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

Tiles: L S L U L

a) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
b) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2}$
c) $\dfrac{3\cdot2}{3\cdot2}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2\cdot3\cdot2}$
e) $\dfrac{4\cdot3\cdot2}{3\cdot2}$

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

Tiles: Z C C H C

a) $\dfrac{4\cdot3\cdot2}{3\cdot2}$
b) $\dfrac{5\cdot4\cdot3\cdot2}{4\cdot3\cdot2}$
c) $\dfrac{5\cdot4\cdot3\cdot2}{5\cdot4\cdot3\cdot2\cdot1}$
d) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2\cdot2}$
e) $\dfrac{5\cdot4\cdot3\cdot2}{3\cdot2}$
f) $\dfrac{7\cdot6\cdot5\cdot4\cdot3\cdot2}{2\cdot3\cdot2}$