Math worksheet on *'Probability Counting - Choose N Count of Total Outcomes - To Bracket Notation (Le*
broader unit on *'Probability and Statistics - Perm Combinations Calculating - Practice*

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1 How many total ways can 2 letter tiles be drawn from this set? Show as a binomial

U W J
F O A

a $\binom{2}{6}$ **b** $\binom{4}{3}$ **c** $\binom{6}{2}$
d $\binom{7}{2}$ **e** $\binom{6}{3}$ **f** $\binom{6}{4}$

2 How many total ways can 2 letter tiles be drawn from this set? Show as a binomial

K S W
Z E I
E

a $\binom{6}{2}$ **b** $\binom{8}{2}$ **c** $\binom{9}{3}$
d $\binom{7}{2}$ **e** $\binom{7}{4}$ **f** $\binom{5}{4}$

3 How many total ways can 3 letter tiles be drawn from this set? Show as a binomial

N A E
E K E

a $\binom{7}{3}$ **b** $\binom{5}{3}$ **c** $\binom{4}{4}$
d $\binom{6}{3}$ **e** $\binom{8}{5}$ **f** $\binom{3}{6}$

4 How many total ways can 3 letter tiles be drawn from this set? Show as a binomial

A I O
O J

a $\binom{7}{5}$ **b** $\binom{4}{4}$ **c** $\binom{3}{2}$
d $\binom{5}{3}$ **e** $\binom{3}{3}$ **f** $\binom{3}{5}$

5 How many total ways can 3 letter tiles be drawn from this set? Show as a binomial

K O A
O H A

a $\binom{6}{3}$ **b** $\binom{7}{4}$ **c** $\binom{6}{5}$
d $\binom{6}{4}$ **e** $\binom{3}{6}$ **f** $\binom{6}{2}$

6 How many total ways can 2 letter tiles be drawn from this set? Show as a binomial

H U I
O M

a $\binom{6}{2}$ **b** $\binom{7}{3}$ **c** $\binom{5}{2}$
d $\binom{4}{2}$ **e** $\binom{3}{3}$ **f** $\binom{2}{5}$

7 How many total ways can 3 letter tiles be drawn from this set? Show as a binomial

A A A
E K

a $\binom{4}{4}$ **b** $\binom{5}{3}$ **c** $\binom{3}{5}$
d $\binom{6}{4}$ **e** $\binom{3}{3}$ **f** $\binom{7}{2}$