

# COUNTDOWN Challenge

## Probability Dependent Events

All 26 letters of the alphabet are placed in a top hat. The probability that I choose a letter that will help spell

DECIMALS is  $\frac{8}{26}$ :

$\frac{8 \text{ favorable outcomes [d, e, c, i, m, a, l, s]}}{26 \text{ total outcomes [a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z]}}$

Complete the chart below.

Alphabet letters drawn from the hat and <u>not replaced</u> :	Probability that I will choose a letter that will help spell "decimals"
start.....	$\frac{8}{26}$
b .....	$\frac{8}{25}$
x .....	$\frac{8}{24}$
a .....	$\frac{7}{23}$
z .....	_____
t .....	_____
d .....	_____
s .....	_____
l .....	_____
g .....	_____
h .....	_____
v .....	_____
c .....	_____
f .....	_____
r .....	_____
q .....	_____
p .....	_____
o .....	_____
n .....	_____
m .....	_____
j .....	_____
w .....	_____
e .....	_____
u .....	_____
k .....	_____
l .....	_____