

MathFLIX 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” |
|--|--|
| <i>start</i> | $\frac{8}{26}$ |
| 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 | _____ |
| i | _____ |