

# GIVE THE FIRST LINE OF ELIZABETH BARRETT BROWNING'S POEM IN WHICH SHE DECLARES HER LOVE FOR HER PROBABILITY TEACHER.

Match with the number that will give a correct result to each counting problem.

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| 1) How many male/female couples can be formed with 5 boys and 7 girls?   |
| 2) How many different outfits can be mixed and matched with 8 shirts and 3 pairs of pants?   |
| 3) How many different outfits can be mixed and matched with 8 shirts and 3 pairs of pants and 2 jackets?                             |
| 4) How many different ways can the letters in the word <b>AID</b> be arranged?   |
| 5) How many different ways can the letters in the word <b>ADD</b> be arranged?   |
| Using any of the letters <b>W, X, Y,</b> and <b>Z</b> only once,   |
| 6) How many different 4-letter "words" can be formed.  |
| 7) How many different 3-letter "words" can be formed.  |
| 8) How many different 4-letter "words" could be formed if repeated letters are allowed?  |
| Using the digits <b>0, 1, 2, 3, 4, 5, 6, 7, 8, 9,</b>  |
| 9) How many 3-digit numbers can be formed? (numbers like 025 are 2-digit numbers)  |
| 10) How many odd 3-digit numbers can be formed?  |
| 11) How many even 3-digit numbers can be formed?   |
| 12) How many 3-digit numbers that are multiples of 5 can be formed?  |
| 13) How many 3-digit numbers can be formed if repeated digits are not allowed?   |
| 14) In how many different ways can 7 people line up?   |
| 15) In how many different ways can 7 people line up if one particular person has to stand at the head of the line?                   |
| 16) In how many different ways can a president and vice president be chosen from 7 people?   |
| 17) In how many different ways can 4 Americans and 3 Russians be seated in a row so that those of the same nationality sit together? |
| 18) When tossing 2 dice, how many different outcomes are possible?   |
| 19) When tossing 2 dice, in how many ways can the sum of the faces be 4?   |
| 20) When tossing 2 dice, in how many ways can the sum of the faces be 7?   |
| 21) When tossing 2 dice, in how many ways can you get doubles (same number on each face)?  |
| 22) When tossing 3 coins, in how many ways can you get 3 heads?  |
| 23) When tossing 3 coins, in how many ways can you get 2 heads and 1 tail?   |
| 24) When tossing 3 coins, in how many ways can you get 1 head and 2 tails?   |
| 25) When tossing 3 coins, in how many ways will you get neither all heads nor all tails?   |

### Probabilities

A. 1	B. 12	C. 48	D. 35	E. 3	F. 10	H. 24
I. 256	K. 16	L. 288	M. 42	N. 180	O. 6	P. 100
R. 500	S. 36	T. 450	U. 648	V. 720	W. 900	Y. 5040

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