Probability Calculation - Binomial Notation - Simple Multiplication Over Single

1 What is the value of this probability expression?

$$\frac{\binom{3}{2} \cdot \binom{4}{2}}{\binom{2}{2}}$$

A	B	C
3	18	15
D	E	
6	12	

2 What is the value of this probability expression?

$$\frac{\binom{6}{5} \cdot \binom{5}{2}}{\binom{4}{4}}$$

A	B	C
60	$\frac{2}{25}$	6
D		
150		

3 What is the value of this probability expression?

$$\frac{\binom{4}{3} \cdot \binom{5}{5}}{\binom{5}{3}}$$

A	B	C
$\frac{2}{5}$	$\frac{4}{5}$	$\frac{1}{10}$

4 What is the value of this probability expression?

$$\frac{\binom{6}{3} \cdot \binom{5}{4}}{\binom{5}{2}}$$

A	B	C
$\frac{1}{10}$	2	100
D		
10		

5 What is the value of this probability expression?

$$\frac{\binom{5}{4} \cdot \binom{6}{3}}{\binom{6}{2}}$$

A	B	C
100	5	$\frac{50}{3}$
D	E	
$\frac{20}{3}$	$\frac{1}{15}$	

6 What is the value of this probability expression?

$$\frac{\binom{3}{2} \cdot \binom{2}{2}}{\binom{4}{2}}$$

A	B	C
$\frac{1}{6}$	1	$\frac{1}{2}$
D		
$\frac{4}{3}$		

7 What is the value of this probability expression?

$$\frac{\binom{3}{3} \cdot \binom{6}{5}}{\binom{6}{5}}$$

A	B	C
1	$\frac{1}{6}$	$\frac{1}{15}$
D		
$\frac{1}{36}$ 361		

8 What is the value of this probability expression?

$$\frac{\binom{6}{3} \cdot \binom{6}{6}}{\binom{2}{2}}$$

A	B	C
$\frac{4}{3}$	1	6
D		
20		

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