

## Review Answers

$$\textcircled{1} p(\text{odd}) = \frac{3}{6} = \boxed{\frac{1}{2}}$$

1, 3, 5

$$\textcircled{2} p(2 \text{ or } 4) = \frac{2}{6} = \boxed{\frac{1}{3}}$$

$\textcircled{3} +$

1	2	3	4	5	6	
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

$$p(\text{total} = 10) = \frac{3}{36} = \boxed{\frac{1}{12}}$$

$$\textcircled{4} p(\text{two } 3\text{'s}) = \boxed{\frac{1}{36}}$$

$\textcircled{5}$  dependent

$\textcircled{6}$  independent

$$\textcircled{7} p(\text{cinnamon and cinnamon}) = p(c) \cdot p(c)$$

$$p(c, c) = \frac{3}{16} \cdot \frac{3}{16} = \boxed{\frac{9}{256}}$$

$$\textcircled{8} p(\text{white and white}) = \frac{10}{24} \cdot \frac{9}{23} = \frac{90}{552} = \boxed{\frac{15}{92}}$$

no replacement  
So one less white sock.  $\nearrow$

$$\textcircled{9} p(\text{yellow and 8}) = p(y) \cdot p(8)$$

$$p(y, 8) = \frac{2}{8} \cdot \frac{1}{8} = \frac{2}{64} = \boxed{\frac{1}{32}}$$