Homework 32, Section 6.3: 2, 4, 6, 8, 12

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Homework

2.

$C(7,5) \cdot (\frac{1}{6})^5 \cdot (\frac{5}{6})^2 + C(7,6) \cdot (\frac{1}{6})^6 \cdot (\frac{5}{6})^1 + C(7,7) \cdot (\frac{1}{6})$

4.

$\frac{1}{2}^{10} \cdot (C(10,8) + C(10,9) + 1)$

6.

$C(5,3) \cdot (\frac{1}{2})^3 \cdot (\frac{1}{2})^2 + C(5,4) \cdot (\frac{1}{2})^4 \cdot (\frac{1}{2})^1 + \frac{1}{2}^5$

8.

$C(4,3) \cdot (\frac{1}{2})^3 \cdot (\frac{1}{2})^1 + \frac{1}{2}^4$

12. A)

$\frac{3 \cdot 5 \cdot 4}{6^3}$

12. B)

$\frac{3 \cdot 5 \cdot 4}{6^3}$

12. C)

$\frac{3 \cdot 5 + 5}{6^3}$