3.5 (a) $c = 1/30$ since $1 = \sum_{x=0}^{3} c(x^2+4) = 30c$.

(b) $c = 1/10$ since

$$1 = \sum_{x=0}^{3} c\binom{2}{x}\binom{3}{3-x} = c\left[\binom{2}{0}\binom{3}{3} + \binom{2}{1}\binom{3}{2} + \binom{2}{2}\binom{3}{1}\right] = 10c.$$

3.6 (a) $P(X > 200) = \int_{200}^{\infty} \frac{20000}{(x+100)^3}\,dx = -\frac{10000}{(x+100)^2}\Big|_{200}^{\infty} = \frac{1}{9}$.

(b) $P(80 < X < 200) = \int_{80}^{120} \frac{20000}{(x+100)^3}\,dx = -\frac{10000}{(x+100)^2}\Big|_{80}^{120} = \frac{1000}{9801} = 0.1020$.

3.7 (a) $P(X < 1.2) = \int_0^1 x\,dx + \int_1^{1.2}(2-x)\,dx = \frac{x^2}{2}\Big|_0^1 + \left(2x - \frac{x^2}{2}\right)\Big|_1^{1.2} = 0.68$.

(b) $P(0.5 < X < 1) = \int_{0.5}^{1} x\,dx = \frac{x^2}{2}\Big|_{0.5}^{1} = 0.375$.

3.8 Referring to the sample space in Exercise 3.3 and making use of the fact that $P(H) = 2/3$ and $P(T) = 1/3$, we have
$P(W = -3) = P(TTT) = (1/3)^3 = 1/27$;
$P(W = -1) = P(HTT) + P(THT) + P(TTH) = 3(2/3)(1/3)^2 = 2/9$;
$P(W = 1) = P(HHT) + P(HTH) + P(THH) = 3(2/3)^2(1/3) = 4/9$;
$P(W = 3) = P(HHH) = (2/3)^3 = 8/27$;
The probability distribution for W is then

w	-3	-1	1	3
$P(W = w)$	$1/27$	$2/9$	$4/9$	$8/27$

3.9 (a) $P(0 < X < 1) = \int_0^1 \frac{2(x+2)}{5}\,dx = \frac{(x+2)^2}{5}\Big|_0^1 = 1$.

(b) $P(1/4 < X < 1/2) = \int_{1/4}^{1/2} \frac{2(x+2)}{5}\,dx = \frac{(x+2)^2}{5}\Big|_{1/4}^{1/2} = 19/80$.

3.10 The die can land in 6 different ways each with probability 1/6. Therefore, $f(x) = \frac{1}{6}$, for $x = 1, 2, \ldots, 6$.

3.11 We can select x defective sets from 2, and $3-x$ good sets from 5 in $\binom{2}{x}\binom{5}{3-x}$ ways. A random selection of 3 from 7 sets can be made in $\binom{7}{3}$ ways. Therefore,

$$f(x) = \frac{\binom{2}{x}\binom{5}{3-x}}{\binom{7}{3}}, \qquad x = 0, 1, 2.$$

In tabular form

x	0	1	2
$f(x)$	$2/7$	$4/7$	$1/7$

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Marco Cascella

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