Extension 1 Probability Worksheet – Answers

1   11/243   2   (iii) 1024/1025   3   3!4!/6! =1/5   4   1/10

5   10   6 $1-4q^4(1-q)^3$

7   The probability distribution is as follows:

X	0	1	2
P (X)	$\dfrac{49}{100}$	$\dfrac{21}{50}$	$\dfrac{9}{100}$

8   1/52   9   1/3, ½

10   The probability distribution is:

X	0	1	2	3	4
P (X)	$\dfrac{625}{1296}$	$\dfrac{500}{1296}$	$\dfrac{150}{1296}$	$\dfrac{20}{1296}$	$\dfrac{1}{1296}$

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