

Review Test Probability

1. ${}_{15}C_3 = \boxed{455}$

2. ${}_{15}P_3 = \boxed{2730}$

3. $3 \cdot 4 \cdot 2 \cdot x = 48$

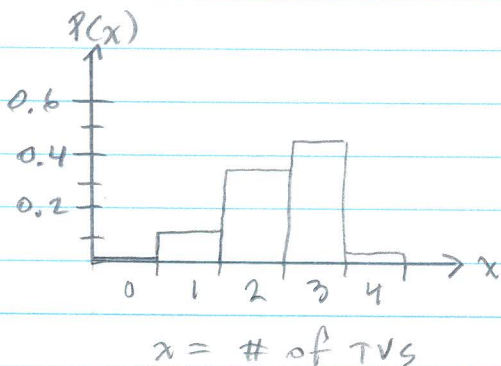
$\boxed{2 \text{ cookies}}$

4. $20 + 15 + 10 = 45$ total students
 $8 + 8 + 6 = 22$ female
 $45 - 22 = 23$ male

a) $P(\text{male}) = \boxed{\frac{23}{45}}$

b) $P(\text{Stats or female}) = \frac{15 + 8 + 6}{45} = \boxed{\frac{29}{45}}$

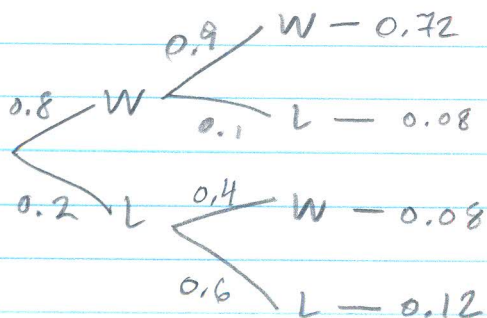
5.



6 a) $E(x) = \boxed{1.6 \text{ games}}$

6 b) $\boxed{0.88}$

6.

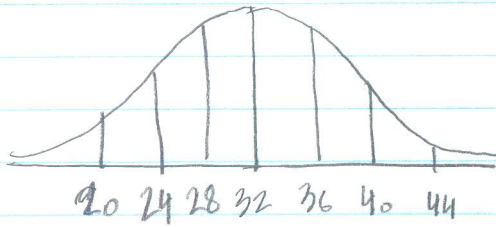


$x = \# \text{ wins}$

x	P(x)	x · P(x)
0	0.12	0
1	0.16	0.16
2	0.72	1.44
		<u>1.60</u>



7. a)



b) 2.5% \rightarrow
 0.025

c) $50\% - 34\% = 16\%$

d) $34\% + 34\% + 13.5\% = 81.5\%$

e) 36 minutes