LESSON Practice B

Experimental Probability 9-2

1. A number cube was thrown 150 times. The results are shown in the table below. Complete the table with the experimental probability for each outcome.

Outcome	1	2	3	4	5	6
Frequency	33	21	15	36	27	18
Probability						

A movie theater sells popcorn in small, medium, large and jumbo sizes. The customers of the first show purchase 4 small, 20 medium, 40 large, and 16 jumbo containers of popcorn. Find the probability of the purchase of each of the different size containers of popcorn.

2. *P*(small container)

3. *P*(medium container)

4. *P*(large container)

5. *P*(jumbo container)

If the theater has 260 customers for the second show, predict how many containers of each size popcorn will be sold based on the purchases during the first show.

6. Number of small containers sold

7. Number of medium containers sold

8. Number of large containers sold **9.** Number of jumbo containers sold

10. The class president made 75 copies of the flyer advertising the school play. It was found that 6 of the copies were defective. What is the probability that a flyer will be printed properly?

11. If 400 more flyers must be printed, predict how many will be defective.

9-2 Experimental Probability						
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The results of an unbiased survey show the favorite instruments of 8th graders. Find the experimental probability for each.	 A number cube was thrown 150 times. The results are shown in the table below. Complete the table with the experimental probability for each outcome 					
Result Piano Drums Trombone Flute Violin Clarinet						
Number 1 4 42 38 12 3	Outcome 1 2 3 4 5 6 Frequency 33 21 15 36 27 18					
1. a student chooses clarinet 2. a student chooses drums	Probability 22% 14% 10% 24% 18% 12%					
$\frac{3}{100}$ or 3% $\frac{1}{25}$ or 4%	A movie theater sells popcorn in small, medium, large and jumbo					
3. a student chooses flute 4. a student chooses piano	sizes. The customers of the first show purchase 4 small, 20 medium, 40 large, and 16 jumbo containers of popcorn. Find the probability of					
	the purchase of each of the different size containers of popcorn.					
	2. P(small container)3. P(medium container)					
5. a student chooses trombone 6. a student chooses violin	$\frac{1}{20}$ or 5% $\frac{1}{4}$ or 25%					
$\frac{21}{50}$ or 42% $\frac{3}{25}$ or 12%	4. P(large container) 5. P(iumbo container)					
A can contains color chins in 5 different colors. Thomas took a	$\frac{1}{2}$ or 50% $\frac{1}{2}$ or 20%					
sample from the can and counted the colors. His results are in						
the table below.	If the theater has 260 customers for the second show, predict how many containers of each size noncorn will be sold based on the					
Color Blue Pink Black White Brown	purchases during the first show.					
	6. Number of small containers sold 7. Number of medium containers sold					
7. Find the experimental probability of choosing a pink color chip.	<u>/ 13 65</u>					
8. Find the experimental probability of choosing a black or white $\frac{5}{8}$ or 62.5° color chip.	8. Number of large containers sold 9. Number of jumbo containers sold					
9. Suppose someone chooses a color chip from the can 112 times. How many of them would you expect to be blue? 14	52					
10. If the can contained 2000 color chips, how many of them would you expect to be brown? 375	10. The class president made 75 copies of the flyer advertising the school play. It was found that 6 of the copies were defective.					
11. Cheryl surveyed 30 students who ride the bus to school 8 who	11 If (00 more fluore must be printed product be manually in the printed property in the printed product in the printed product be printed product					
walk, 9 who ride bicycles, and 3 who ride in cars. What is the experimental probability that the next student Cheryl surveys will 425 or 169	be defective					
Current Div Ma Rossen and Works	Anth Conside Division 20 Halt Middle Sabaal Math					
All rights reserved.	All rights reserved.					
The developer of a Web page wants to track the number of hits to	A machine is filling 50-niece bayes of chocolate candies by choosing					
each link of the Web page. An automatic counter records the	at random from a selection of six types of chocolate candide by chocoling					
following hits in one week: home, 60 hits; FAQ, 20 hits; employment	I inspector records the results for one tilled box in the table below.					
opportunities, 15 hits; products, 50 hits; order status, 30 hits; and						
opportunities, 15 hits; products, 50 hits; order status, 30 hits; and contact information, 25 hits. Estimate the probability for each.	Type Dark Light Caramel Dark Nuts Light Nuts Cream					
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opportunities, 15 hits; products, 50 hits; order status, 30 hits; and contact information, 25 hits. Estimate the probability for each.1. P(home)2. P(FAQ)3. P(products) $\frac{3}{10}$ or 30% $\frac{1}{10}$ or 10% $\frac{1}{4}$ or 25%4. P(order status)5. P(employment opportunities)6. P(contact information) $\frac{3}{20}$ or 15% $\frac{3}{40}$ or 7.5% $\frac{1}{8}$ or 12.5%Hayley bought a CD with 12 songs on it. She placed it in her CD changer and selected random play mode. Hayley kept a record of how the tracks played. The following table illustrates the results.Track123456789101112Frequency243124234214Find the experimental probability for each of the following.7. P(track 1)8. P(track 4)9. P(track 5) $\frac{1}{16}$ or $6\frac{1}{4}\%$ $\frac{1}{32}$ or $3\frac{1}{8}\%$ 010. P(track 2)11. P(track 11)12. P(track 13) $\frac{1}{8}$ or $12\frac{1}{2}\%$ $\frac{1}{32}$ or $3\frac{1}{8}\%$ 013. P(track 8)14. P(track 3)15. P(track 12)	TypeDarkLightCaramelDarkLightNutsCreamNumber81264155The inspector then expands the table to find the experimental probability. probability = number of type of chocolate total number of chocolates in boxTypeDarkLightCaramelDark NutsLight NutsTypeDarkLightCaramelDark NutsLight NutsExperimental Probability8/50, or $\frac{4}{25}$ 12/50, or $\frac{2}{25}$ 6/50, or $\frac{2}{25}$ 15/50, or $\frac{3}{10}$ 5/50, or $\frac{1}{10}$ Experimental Probability8/50, or $\frac{4}{25}$ 12/60, or $\frac{2}{25}$ 15/50, or $\frac{3}{10}$ 5/50, or $\frac{1}{10}$ Experimental Probability16%24%12%8%30%10%Find each sum for the chocolate experiment.1. The sum of the experimental probability ratios. probability = $\frac{6}{50} + \frac{15}{50} + \frac{5}{50} + \frac{15}{50} + \frac{5}{50} = \frac{50}{50}$ or $\underline{1}_{$					
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opportunities, 15 hits; products, 50 hits; order status, 30 hits; and contact information, 25 hits. Estimate the probability for each.1. P(home)2. P(FAQ)3. P(products) $\frac{3}{10}$ or 30% $\frac{1}{10}$ or 10% $\frac{1}{4}$ or 25%4. P(order status)5. P(employment opportunities)6. P(contact information) $\frac{3}{20}$ or 15% $\frac{3}{40}$ or 7.5% opportunities) $\frac{1}{8}$ or 12.5%Hayley bought a CD with 12 songs on it. She placed it in her CD changer and selected random play mode. Hayley kept a record of how the tracks played. The following table illustrates the results.Track123456789101112Frequency243124234214Find the experimental probability for each of the following.7. P(track 1)8. P(track 4)9. P(track 5) $\frac{1}{16}$ or $6\frac{1}{4}\%$ $\frac{1}{32}$ or $3\frac{1}{8}\%$ $\frac{1}{16}$ or $6\frac{1}{4}\%$ 10. P(track 2)11. P(track 11)12. P(track 13) $\frac{1}{32}$ or $3\frac{1}{8}\%$ 013. P(track 8)14. P(track 3)15. P(track 12) $\frac{3}{32}$ or $9\frac{3}{8}\%$ $\frac{3}{32}$ or $9\frac{3}{8}\%$ $\frac{1}{8}$ or $12\frac{1}{2}\%$ 16. If a coin is taken of the following contact in the cols into a contact in the co	TypeDarkLightCaramelDarkLightCreamNumber81264155The inspector then expands the table to find the experimental probability. probability = number of type of chocolate total number of chocolates in boxTypeDarkLightCaramelDarkLight NutsCreamFyperimental Probability80; or $\frac{4}{25}$ $\frac{12}{50}$, or $\frac{6}{25}$ $\frac{6}{50}$, or $\frac{3}{25}$ $\frac{4}{50}$, or $\frac{2}{25}$ $\frac{15}{50}$, or $\frac{3}{10}$ $\frac{5}{50}$, or $\frac{1}{10}$ Experimental ProbabilityProbability $\frac{8}{50}$, or $\frac{4}{25}$ $\frac{12}{50}$, or $\frac{6}{25}$ $\frac{6}{50}$, or $\frac{3}{25}$ $\frac{4}{50}$, or $\frac{2}{25}$ $\frac{15}{50}$, or $\frac{3}{10}$ $\frac{5}{50}$, or $\frac{1}{10}$ Experimental ProbabilityProbability 16% 24% 12% 8% 30% 10% Find each sum for the chocolate experiment.1. The sum of the experimental probability ratios. probability = $\frac{8}{50} + \frac{12}{50} + \frac{6}{50} + \frac{4}{50} + \frac{15}{50} + \frac{5}{50} = \frac{50}{50}$ or $\underline{1}_{-}$ Complete the table to find the experimental probability percents. probability = 16% + 24% + 12% + 8% + 30% + 10% = 100% or $\underline{1}_{-}$ TypeMarigold Impatiens Snapdragon Daisy PetuniaNumber40100 80 60 Light 40% or $\frac{1}{10}$ The sum of the experimental probabilityProbability = $\frac{40}{400}$, or $\frac{1}{10}$ <					
opportunities, 15 hits; products, 50 hits; order status, 30 hits; and contact information, 25 hits. Estimate the probability for each.1. P(home)2. P(FAQ)3. P(products) $\frac{3}{10}$ or 30% $\frac{1}{10}$ or 10% $\frac{1}{4}$ or 25%4. P(order status)5. P(employment opportunities)6. P(contact information) $\frac{3}{20}$ or 15% $\frac{3}{40}$ or 7.5% $\frac{1}{8}$ or 12.5%Hayley bought a CD with 12 songs on it. She placed it in her CD changer and selected random play mode. Hayley kept a record of how the tracks played. The following table illustrates the results.Track12345Frequency2431242Frequency24312421Find the experimental probability for each of the following.7. P(track 1)8. P(track 4)9. P(track 5) $\frac{1}{16}$ or $6\frac{1}{4}\%$ $\frac{1}{32}$ or $3\frac{1}{8}\%$ 010. P(track 2)11. P(track 11)12. P(track 13) $\frac{1}{8}$ or $12\frac{1}{2}\%$ $\frac{3}{32}$ or $9\frac{3}{8}\%$ $\frac{1}{8}$ or $12\frac{1}{2}\%$ 13. P(track 8)14. P(track 3)15. P(track 12) $\frac{3}{32}$ or $9\frac{3}{8}\%$ $\frac{13}{32}$ or $5\frac{3}{8}$ or $5\frac{2}{5}$ 16. If a coin is tossed 75 times and it lands on heads 36 times, what is the experimental probability of it landing on tails? $\frac{13}{25}$ or 52%	TypeDarkLightCaramelDarkLightCreamNumber81264155The inspector then expands the table to find the experimental probability. probability = total number of chocolates in boxTypeDarkLightCaramelDarkLight NutsCreamTypeDarkLightCaramelDarkLight NutsCreamFyperimental Probability850, or $\frac{4}{25}$ $\frac{12}{50}$, or $\frac{6}{25}$ $\frac{6}{50}$, or $\frac{3}{25}$ $\frac{4}{50}$, or $\frac{2}{25}$ $\frac{15}{50}$, or $\frac{1}{10}$ Experimental Probability8 $\frac{12}{50}$, or $\frac{4}{25}$ $\frac{12}{50}$, or $\frac{2}{25}$ $\frac{6}{50}$, or $\frac{2}{25}$ $\frac{15}{50}$, or $\frac{3}{10}$ $\frac{5}{50}$, or $\frac{1}{10}$ Experimental Probability16%24%12% $8%$ 30% 10% Find each sum for the chocolate experiment.1. The sum of the experimental probability ratios. probability = $\frac{8}{50} + \frac{12}{50} + \frac{6}{50} + \frac{4}{50} + \frac{15}{50} + \frac{5}{50} = \frac{50}{50}$ or $\underline{1}_{-}$ Complete the table to find the experimental probability percents. probability = $16\% + 24\% + 12\% + 8\% + 30\% + 10\% = 100\%$ or $\underline{1}_{-}$ TypeMarigold Impatiens Snapdragon Daisy PetuniaNumber401008060120Experimental Probability $\frac{40}{400}$, or $\frac{1}{10}$ $\frac{100}{400}$, or $\frac{1}{4}$ $\frac{80}{400}$, or $\frac{1}{5}$ $\frac{60}{400}$, or 2					
opportunities, 15 hits; products, 50 hits; order status, 30 hits; and contact information, 25 hits. Estimate the probability for each. 1. P(home) 2. P(FAQ) 3. P(products) <u>3</u> 10 or 30% <u>10 or 10%</u> <u>14 or 25%</u> 4. P(order status) 5. P(employment opportunities) 6. P(contact information) <u>3</u> 20 or 15% <u>3</u> 40 or 7.5% <u>18 or 12.5%</u> Hayley bought a CD with 12 songs on it. She placed it in her CD changer and selected random play mode. Hayley kept a record of how the tracks played. The following table illustrates the results. Track <u>1 2 3 4 5 6 7 8 9 10 11 12</u> Frequency 2 4 3 1 2 4 2 3 4 2 1 4 Find the experimental probability for each of the following. 7. P(track 1) 8. P(track 4) 9. P(track 5) <u>16 or 614%</u> <u>132 or 318%</u> <u>16 or 614%</u> 10. P(track 2) 11. P(track 11) 12. P(track 13) <u>18 or 122¹%</u> <u>32 or 318%</u> 0 13. P(track 8) 14. P(track 3) 15. P(track 12) <u>32 or 938%</u> <u>32 or 938%</u> <u>18 or 122¹%</u> 16. If a coin is tossed 75 times and it lands on heads 36 times, what is the experimental probability of it landing on tails? <u>15 or 52%</u>	TypeDarkLightCaramelDarkLightCreamNumber81264155The inspector then expands the table to find the experimental probability. probability = number of type of chocolate total number of chocolates in boxTypeDarkLightCaramelDarkLight NutsTypeDarkLightCaramelDarkLight NutsCreamExperimental Probability8or 41555TypeDarkLightCaramelDarkLight NutsCreamExperimental Probability8or 4256or 3254or 35or 1Probability (percent)16%24%12%8%30%10%Find each sum for the chocolate experiment.1. The sum of the experimental probability ratios. probability = $\frac{6}{50} + \frac{15}{50} + \frac{5}{50} + \frac{5}{50} = \frac{50}{50}$ or $\frac{1}{10}$ 2. The sum of the experimental probability percents. probability = $16\% + 24\% + 12\% + 8\% + 30\% + 10\% = 100\%$ or $\frac{1}{10}$ Standardagon DaisyPetunia NumberMarigoldImpatientsSnaptraseSnaptraseDisperimentalProbability1080601210020806021100221023102410024400, or $\frac{1}{10}$ 25%20%20<					