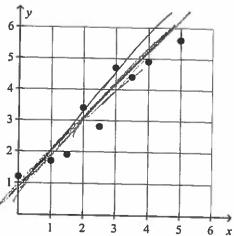
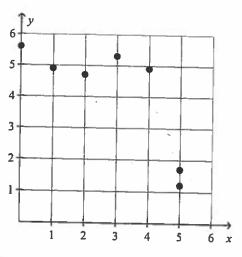
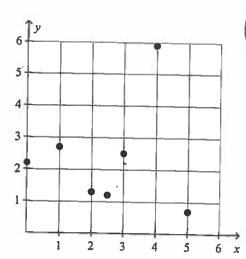
Chapter B Practice Test

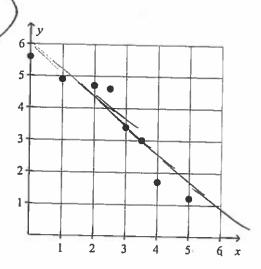
1. Which of the scatter plots shows a negative correlation?





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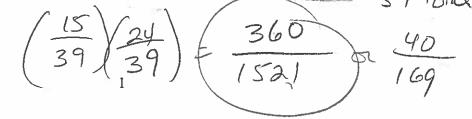




2. You toss a coin and roll a number cube. Find P(heads and an odd number).

Suppose you choose a marble from a bag containing 2 red marbles, 2 white marbles, and 3 blue marbles. You return the first marble to the bag and then choose again, Find P(red and blue).

4. In a word game, you choose a tile from a bag replace it, and then choose another. If there are 24 vowels and 15 consonants, what is the probability you will choose a consonant and then a vowel? 39 total



5. Are the two events dependent or independent? Explain.

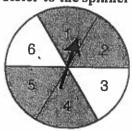
Toss a dime, and then toss a quarter.

independent - don't affect each other

Pick a card from a deck of cards. Keep the card and pick another.

dependent - affect each other

Refer to the spinner below.



Find P(even and shaded).

7. Find the odds of the spinner landing on a light section.

2:4 0 1:2

8. Make a stem-and-leaf plot for the following set of data.

1.3, 1.5, 1.8, 2.5, 2.5, 2.8, 3.2, 3.3 13=1,3 2 558

9. Find the mean, median, mode, and range.

Mean: 24 Median 25.5 Mode: 10 MRange: 25

2

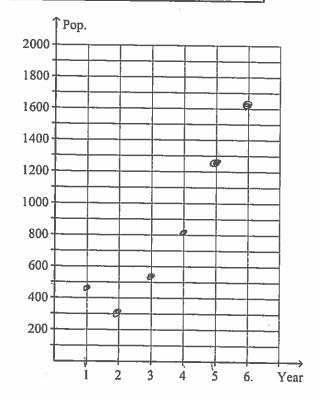
Mean: 192 = 24

Median: \$1 = 25.5

Mod: non Roug 36/1=25

10. The population of an endangered animal species has been increasing. Make a scatter plot using the data given in the table.

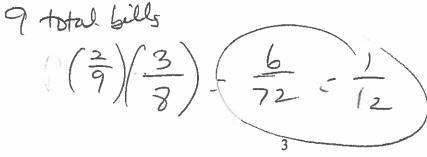
| Year | Population |
|------|------------|
| 1 | 480 |
| 2 | 310 |
| 3 | 520 |
| 4 | 810 |
| 5 | 1250 |
| 6 | 1610 |



11. A cell phone company orders 700 new phones from a manufacturer. If the probability of a phone being defective is 2.4%, predict how many of the phones are likely to be defective. Round to the nearest whole number.

(0.0x) 700)= (68 £17)

12. You have three \$1 bills, four \$5 bills, and two \$10 bills in your wallet. You select a bill at random. Without replacing the bill, you choose a second bill at random. Find P(\$10 then \$1).



| 13. | Your math teacher allows you to choose the most favorable measure of central tendency (mean, median, or |
|----------|--|
| | mode) of your test scores to determine your grade for the term. On six tests you earn scores of 76, 74, 89, 79 |
| | 88, and 89. What is your grade to the nearest whole number, and which measure of central tendency should be you choose? |
| | you choose? |
| | Mean: 495 = 82.5 Mill = 89 Wight 89 89 Median: 18 = 83.5 Mill = 89 Wight |
| | Mean: = 82.5 |
| | (MM= 289) L-1-1 |
| | Madina 1 - 22 |
| | |
| 14. | A basket contains 11 pieces of fruit: 7 apples, 2 oranges, and 2 bananas. Jonas takes a piece of fruit at |
| | random from the basket, and then Beth takes a niece at random. What is the probability that I are a will and |
| | orange and Beth will get an apple? This is a without replacement streetion |
| | 12/2/2/14 |
| | $\frac{1}{1}$ |
| | $(\frac{2}{11})(\frac{7}{10}) \neq \frac{19}{110} = \frac{7}{110}$ |
| 1.5 | |
| 15. | Over the first five years of owning her car, Gina drove about 12,300 miles the first year, 16,300-miles the |
| | second year, 12,700 the third year, 10,800 the fourth year, and 12,825 the fifth year. |
| | second year, 12,700 the third year, 10,800 the fourth year, and 12,825 the fifth year. a. Find the mean, median, and mode of this data. (0,800 /2,300 /2,700 /2,30 |
| | 1798 |
| | Mean: 12985 Median: 12,700 Mode: 1018 |
| | 64925 |
| | |
| | S 60 |
| | |
| | |
| | b. Explain which measure of central tendency (mean or median) will best predict how many miles Gina will |
| | drive in the sixth year. |
| | a the |
| | mean-theres no outlier |
| | |
| 16 | You roll a standard number cube. Find Planmbon annotated to 12 |
| 10. | You roll a standard number cube. Find P(number greater than 1) |
| | <u>S</u> |
| | (0 |
| 17. | You have the numbers 1–24 written on slips of paper. If you shoom one slip of market and the standard of the s |
| | probability that you will not select a number which is divisible by 20 7 / 0 12 15 15 15 |
| | 16 of 2 delicer a manifest which is divisible by 3? 3 6 9 12 13 18 & a |
| | 39 0 3 |
| 18. | T 1 1 1 Soch 1 1 T T T T T T T T T T T T T T T T T |
| | In a batch of 960 calculators, 8 were found to be defective. What is the probability that a calculator chosen at |
| | You have the numbers 1–24 written on slips of paper. If you choose one slip at random, what is the probability that you will not select a number which is divisible by 3? 3 6 9 12 15 18 21 2 In a batch of 960 calculators, 8 were found to be defective. What is the probability that a calculator chosen at random will be defective? Write the probability as a percent. Round to the pearest tenth of a percent if |
| | necessary. |
| | necessary. |
| <u> </u> | necessary. $\frac{3}{960} = 0.00833 = 0.87$ |
| <u> </u> | necessary. |
| <u> </u> | necessary. $\frac{3}{960} = 0.00833 = 0.87$. You toss a coin and roll a number cube. Find $P(\text{heads and an even number})$. |
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| <u> </u> | necessary. $\frac{3}{960} = 0.00833 = 0.87$ |