

Practice Exercise 2

1. The video store rented 42 videotapes on Monday, 35 on Tuesday, 51 on Wednesday, and 32 on Thursday. What was the average number of videotapes initially rented per day from Monday to Thursday if all were one-day rentals?

A. 37
B. 38
C. 40
D. 44
E. 54

$Mean = \frac{42 + 35 + 51 + 32}{4}$

2. In the tournament, the Tigers scored 44, 56, and 47 points in the first three games. If their four-game tournament average score was 52 points, how much did they score in their final game?

A. 52
B. 55
C. 58
D. 61
E. None of the above

$52 = \frac{44 + 56 + 47 + x}{4}$
 $208 = 147 + x$
 $x = 61$

3. Find the probability that a family with three children will have exactly two girls.

A. $\frac{3}{4}$
B. $\frac{2}{3}$
C. $\frac{3}{8}$
D. $\frac{1}{2}$
E. $\frac{1}{3}$

$Prob(2g) = \frac{3}{8}$
BBB BBG GGB GGG
BGB GBB BGG
GBB

4. There are 13 CDs in a box: 8 are hip-hop, 3 are country, and 2 are classical. Find the probability that a randomly selected CD will be country or classical.

A. $\frac{1}{2}$
B. $\frac{5}{8}$
C. $\frac{5}{13}$
D. $\frac{2}{3}$
E. $\frac{3}{8}$

$Prob(c or c) = \frac{5}{13}$

5. Tim bought a shirt for \$10.99, a tie for \$9.99, and a jacket for \$59.00. Including a sales tax of 6%, what was the total bill?

A. \$68.74
B. \$74.68
C. \$78.48
D. \$79.98
E. \$84.78

$(10.99 + 9.99 + 59.00) 1.06$

6. Bill purchased six 6-packs of cola for \$2.75 each. How much will this purchase cost including a 6% sales tax?

A. \$16.50
B. \$16.56
C. \$17.49
D. \$17.75
E. \$17.86

$6(2.75)(1.06)$

7. The price of gas at the pump recently rose from \$2.95 to \$3.04 in one week. This represents what percent increase?

A. 0.0031%
B. 0.031%
C. 0.31%
D. 3.1%
E. 31%

$\frac{.09}{2.95} = .0305$

8. The temperature dropped from 50° to 46°. What was the percent of decrease?

A. 4%
B. 8%
C. 9%
D. 10%
E. None of the above

$\frac{4}{50} = .08$

9. Mr. King left $\frac{1}{2}$ of his estate to his wife and

$\frac{1}{3}$ of the remainder to his granddaughter.

What part of his estate is not accounted for in this statement?

- A. $\frac{1}{3}$ D. $\frac{1}{6}$
 B. $\frac{1}{4}$ E. $\frac{1}{8}$
 C. $\frac{1}{5}$ $\frac{1}{2} (\frac{2}{3})$

10. Which of the following has the largest value?

- A. $\frac{1}{.05} = 20$
 B. $\frac{1}{.5} = 2$
 C. $\frac{.1}{5} = .02$
 D. $\frac{.1}{.5} = .2$
 E. $.5 = .5$

11. Karen worked five hours each day from June 15 through June 19. If she makes \$5 per hour, how much did she earn?

- A. \$100 15, 16, 17, 18, 19
 B. \$115 25(5)
 C. \$125
 D. \$135
 E. \$140

12. Chris earns \$65.00 a week delivering flowers for a local florist. In addition, he is paid \$0.15 per mile for the use of his car. One week he traveled 156 miles making deliveries. How much was he paid that week?

- A. \$ 23.40 $65 + 156(.15)$
 B. \$ 66.50
 C. \$ 88.40
 D. \$124.80
 E. None of the above

13. If Earl can type 80 words in three minutes, how long will it take him to type 400 words, working at the same rate?

- A. 15 minutes $\frac{80w}{3 \text{ min}} = \frac{400w}{x}$
 B. 16 minutes
 C. 18 minutes
 D. 20 minutes $80x = 1200$
 E. 22 minutes $x = 15$

14. Robin earns \$120 in five days. At the same rate of pay, how much will she earn in eight days?

- A. \$180 $\frac{\$120}{5 \text{ days}} = \frac{x}{8 \text{ days}}$
 B. \$192 $\frac{120(8)}{5} = x$
 C. \$200 $192 = x$
 D. \$240
 E. \$248

15. If Jason can read $\frac{3}{8}$ of a book in 6 days, how many days will it take him to read the entire book, at the same rate?

- A. 10 days $\frac{\frac{3}{8} \text{ book}}{6 \text{ days}} = \frac{1 \text{ book}}{x}$
 B. 12 days
 C. 14 days
 D. 16 days $\frac{3}{8}x = 6$
 E. None of the above $x = 6 \cdot \frac{8}{3}$

16. On a map, 6 inches represents 240 miles. How many miles would 9 inches represent?

- A. 300 miles $\frac{6 \text{ in}}{240 \text{ mi}} = \frac{9 \text{ in}}{x \text{ mi}}$
 B. 320 miles
 C. 360 miles $6x = 2160$
 D. 400 miles $x = 360$
 E. 420 miles