Name: _____ Date: _____

# 6th Grade Math
# Course 1
# Final Exam Study Guide

**Chapter 6**
Study Guide and Review: **pp.248-250**
Practice Test: **p.251**

**Chapter 7**
Study Guide and Review: **pp.285-286**
Practice Test: **p.287**

**Chapter 8**
Study Guide and Review: **pp.324-326**
Practice Test: **p.327**

**Chapter 9**
Study Guide and Review: **pp.370-372**
Practice Test: **p.373**

**Chapter 10**
Study Guide and Review: **pp.418-420**
Practice Test: **p.421**

**Chapter 11**
Study Guide and Review: **pp.454-456**
Practice Test: **p.457**

Extra Practice for Chapters 6-11: **pp.605-617**

CHAPTER 6

NAME _____ DATE _____ PERIOD ____

# Chapter 6 Test, Form 2A

SCORE ____

***Write the letter for the correct answer in the blank at the right of each question.***

1. Round $\frac{9}{11}$ to the nearest half.
   A. 0 B. $\frac{1}{2}$ C. 1 D. $\frac{3}{4}$ 1. ____

2. Round $9\frac{3}{8}$ to the nearest half.
   F. 9 G. $9\frac{1}{2}$ H. 10 I. $9\frac{1}{4}$ 2. ____

3. Estimate $15\frac{6}{11} + 7\frac{7}{8}$.
   A. 24 B. $22\frac{1}{2}$ C. 23 D. $23\frac{1}{2}$ 3. ____

4. Estimate $\frac{9}{10} - \frac{6}{7}$.
   F. 0 G. $\frac{1}{2}$ H. 1 I. $\frac{1}{4}$ 4. ____

5. Estimate $6\frac{7}{9} - 5\frac{9}{10}$.
   A. 1 B. $1\frac{1}{2}$ C. $2\frac{1}{2}$ D. 2 5. ____

6. BOOKSHELF Rose's tallest books are $12\frac{3}{4}$ inches tall. When she adjusts the shelf height for them, what is her best choice?
   F. $11\frac{3}{4}$ in. G. 12 in. H. $12\frac{1}{2}$ in. I. 13 in. 6. ____

7. Find $\frac{3}{7} + \frac{6}{7}$.
   A. $1\frac{3}{7}$ B. $1\frac{2}{7}$ C. $1\frac{1}{2}$ D. $\frac{9}{14}$ 7. ____

8. Find $\frac{4}{5} - \frac{2}{5}$.
   F. 0 G. $\frac{2}{5}$ H. $\frac{1}{5}$ I. $\frac{1}{2}$ 8. ____

9. Find the sum of $\frac{3}{11}$, $\frac{2}{11}$, and $\frac{7}{11}$.
   A. $\frac{12}{33}$ B. $1\frac{2}{11}$ C. $1\frac{3}{11}$ D. $1\frac{1}{11}$ 9. ____

10. Find $\frac{3}{4} + \frac{1}{2}$.
    F. $1\frac{1}{4}$ G. $\frac{2}{3}$ H. $1\frac{3}{4}$ I. 1 10. ____

11. Find $\frac{2}{3} - \frac{5}{9}$.
    A. $\frac{1}{2}$ B. $\frac{1}{9}$ C. $\frac{7}{12}$ D. $\frac{7}{6}$ 11. ____

Assessment

CHAPTER 6

NAME _____ DATE _____ PERIOD ____

# Chapter 6 Test, Form 2A *(continued)*

12. Find $\frac{1}{2} + \frac{2}{3}$.

F. $\frac{3}{5}$ G. $\frac{1}{2}$ H. $\frac{2}{7}$ I. $1\frac{1}{6}$ 12. ____

13. What is the sum of $\frac{5}{6}$ and $\frac{7}{12}$?

A. $\frac{2}{3}$ B. $1\frac{5}{12}$ C. $1\frac{7}{12}$ D. 2 13. ____

14. Find $7\frac{11}{12} - 2\frac{5}{6}$.

F. $5\frac{1}{12}$ G. $5\frac{1}{2}$ H. 5 I. $9\frac{8}{9}$ 14. ____

15. Find $6\frac{3}{8} + 2\frac{2}{3}$.

A. $8\frac{1}{24}$ B. $9\frac{1}{24}$ C. $8\frac{5}{11}$ D. $8\frac{25}{48}$ 15. ____

16. Find $9\frac{5}{8} - 4\frac{3}{16}$.

F. $5\frac{7}{16}$ G. $4\frac{7}{16}$ H. $13\frac{13}{16}$ I. $13\frac{1}{4}$ 16. ____

17. How much longer than $\frac{2}{5}$ yard is $\frac{7}{10}$ yard?

A. $\frac{1}{2}$ yd B. $\frac{3}{5}$ yd C. $\frac{3}{10}$ yd D. 1 yd 17. ____

18. Find $9\frac{1}{12} - 2\frac{3}{4}$.

F. $7\frac{2}{3}$ G. $6\frac{1}{3}$ H. $7\frac{3}{48}$ I. $7\frac{1}{3}$ 18. ____

19. Find $20 - 6\frac{9}{10}$.

A. $13\frac{9}{10}$ B. $14\frac{9}{10}$ C. $14\frac{1}{10}$ D. $13\frac{1}{10}$ 19. ____

20. **PLUMBING** A metal pipe is $26\frac{3}{16}$ inches long. A plumber needs a $25\frac{1}{2}$-inch-long pipe. How much of the pipe does the plumber need to cut off?

F. $\frac{11}{16}$ in. G. $1\frac{11}{16}$ in. H. $51\frac{11}{16}$ in. I. $1\frac{1}{7}$ in. 20. ____

**Bonus** **DRINKS** Sandy had a 5-gallon water cooler that was partially filled. She added $1\frac{3}{8}$ gallons of water to fill it up. How much water was in the cooler before the additional water was added? B: _____

CHAPTER 7

NAME _____ DATE _____ PERIOD ____

# Chapter 7 Test, Form 2A

SCORE ____

*Write the letter for the correct answer in the blank at the right of each question.*

**Estimate using compatible numbers.**

1. $\frac{1}{3} \times 19$

A. 8 B. $6\frac{1}{3}$ C. 6 D. 5 1. ____

2. $\frac{3}{7} \times 13$

F. $5\frac{2}{7}$ G. 5 H. 2 I. 6 2. ____

**Estimate by rounding.**

3. $\frac{9}{10} \times \frac{5}{6}$

A. $1\frac{3}{4}$ B. 1 C. 0 D. 2 3. ____

4. $5\frac{7}{8} \times 3\frac{1}{6}$

F. 15 G. 24 H. 20 I. 18 4. ____

Assessment

**For Exercises 5–8, multiply. Write in simplest form.**

5. $\frac{3}{4} \times \frac{8}{9}$

A. $\frac{24}{36}$ B. $\frac{2}{3}$ C. $\frac{27}{32}$ D. $\frac{1}{3}$ 5. ____

6. $24 \times \frac{5}{6}$

F. $24\frac{5}{6}$ G. $\frac{5}{144}$ H. $28\frac{4}{5}$ I. 20 6. ____

7. $8 \times 1\frac{1}{6}$

A. $9\frac{1}{3}$ B. $8\frac{1}{6}$ C. 5 D. $\frac{28}{3}$ 7. ____

8. $7\frac{1}{7} \times 4\frac{1}{5}$

F. $\frac{1}{30}$ G. $\frac{71}{12}$ H. 30 I. $28\frac{2}{35}$ 8. ____

9. **ALGEBRA** Find the value of $xy$ if $x = \frac{2}{3}$ and $y = 2\frac{3}{4}$.

A. $3\frac{1}{7}$ B. $\frac{22}{7}$ C. $1\frac{5}{6}$ D. $2\frac{1}{2}$ 9. ____

10. **PLAYGROUND** The tiny tots' sandbox is $4\frac{1}{2}$ yards long and $3\frac{1}{9}$ yards wide. Find the area of the sandbox.

F. $7\frac{1}{11}$ yd$^2$ G. 12 yd$^2$ H. $12\frac{1}{18}$ yd$^2$ I. 14 yd$^2$ 10. ____

CHAPTER 7

NAME _____ DATE _____ PERIOD ____

## Chapter 7 Test, Form 2A *(continued)*

11. Find the reciprocal of $\frac{7}{12}$.

A. $\frac{12}{12}$ B. $\frac{12}{7}$ C. $\frac{7}{12}$ D. 7 11. ____

12. Find the reciprocal of 6.

F. $\frac{6}{1}$ G. 1 H. $\frac{1}{6}$ I. $\frac{2}{6}$ 12. ____

**For Exercises 13–16, divide. Write in simplest form.**

13. $\frac{5}{6} \div \frac{10}{11}$

A. $\frac{11}{12}$ B. $\frac{50}{66}$ C. $\frac{55}{60}$ D. $\frac{25}{33}$ 13. ____

14. $8 \div \frac{2}{7}$

F. 56 G. $\frac{2}{56}$ H. $\frac{16}{7}$ I. 28 14. ____

15. $\frac{3}{4} \div 6$

A. $4\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{3}{10}$ D. $2\frac{1}{4}$ 15. ____

16. $5\frac{5}{6} \div 3\frac{1}{8}$

F. $18\frac{11}{48}$ G. $1\frac{13}{15}$ H. $\frac{56}{30}$ I. $\frac{15}{28}$ 16. ____

17. ALGEBRA Find the value of $a \div b$ if $a = 2\frac{1}{8}$ and $b = \frac{1}{4}$.

A. $\frac{17}{32}$ B. $3\frac{1}{12}$ C. $8\frac{1}{2}$ D. $2\frac{3}{8}$ 17. ____

18. EXERCISE Suzy walked $4\frac{4}{5}$ miles in 3 days. She walked the same number of miles each day. How many miles did she walk each day?

F. $\frac{8}{5}$ G. $14\frac{2}{5}$ H. 2 I. $1\frac{3}{5}$ 18. ____

19. Find the next number in the sequence.
2, 9, 16, 23, ...

A. 28 B. 32 C. 30 D. 29 19. ____

20. MONEY Ana earned \$3 the first week, \$6 the second week, \$12 the third week, \$24 the fourth week, and \$48 the fifth week. If this pattern continues, how much will she earn the sixth week?

F. \$96 G. \$184 H. \$288 I. \$192 20. ____

**Bonus** Write $\frac{3}{4} \times 2\frac{2}{3} \times 1\frac{1}{5}$ in simplest form. B: _____

CHAPTER 8

NAME _____ DATE _____ PERIOD ____

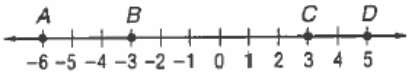
# Chapter 8 Test, Form 2A

SCORE ____

***Write the letter for the correct answer in the blank at the right of each question.***

1. Which situation is *not* best described by a negative integer?
   A. a withdrawal of $45 B. a fine of $15
   C. a loss of 12 yards D. a bonus of 10 points 1. ____

**For Questions 2 and 3, refer to the number line at the right.**




2. Which point shown on the number line represents −6?
   F. point *A* G. point *B* H. point *C* I. point *D* 2. ____

3. Which two points shown on the number line are opposites?
   A. points *A* and *B* B. points *B* and *C* 3. ____
   C. points *A* and *C* D. points *A* and *D*

4. Which of the following statements is true?
   F. $2 < -3$ G. $-4 < -5$ H. $-4 > -5$ I. $-3 > 2$ 4. ____

5. Order −6, 2, 0, and −3 from greatest to least.
   A. 2, 0, −6, −3 B. 0, 2, −3, −6 C. −6, −3, 2, 0 D. 2, 0, −3, −6 5. ____

6. What is $-7 + (-2)$?
   F. −5 G. −9 H. 5 I. 9 6. ____

7. What is $4 + (-4)$?
   A. 1 B. −8 C. 0 D. 8 7. ____

8. FOOTBALL The Blue Jays gained 2 yards on their first play, but then were penalized 10 yards. How many yards did they advance?
   F. 12 G. 8 H. −12 I. −8 8. ____

9. What is $-6 - (-3)$?
   A. −3 B. −9 C. 3 D. 9 9. ____

10. ALGEBRA Find the value of $m - n$ if $m = -6$ and $n = 2$.
    F. −4 G. −8 H. 4 I. 8 10. ____

11. ANIMALS A hunting brown pelican flies 5 feet over the water, directly above a herring. If the herring is 2 feet under the water, how many feet separate the two animals?
    A. 2 ft B. 3 ft C. 7 ft D. 10 ft 11. ____

Assessment

CHAPTER 8

NAME _____ DATE _____ PERIOD ____

# Chapter 8 Test, Form 2A *(continued)*

**For Questions 12 and 13, multiply.**

12. $(-7)(-3)$

F. $-10$ G. 21 H. 10 I. $-21$ 12. ____

13. $-8 \times 4$

A. $-32$ B. $-4$ C. $-2$ D. 32 13. ____

14. RECREATION A parachutist free-falls and then opens his chute just at the tree line. Once the chute is open, he descends at a rate of 2 feet each second. Where will the parachutist be in relation to the tree line 6 seconds after the chute is opened?

F. 12 ft G. $-8$ ft H. 8 ft I. $-12$ ft 14. ____

**For Questions 15 and 16, divide.**

15. $12 \div (-3)$

A. 4 B. $-36$ C. $-4$ D. 9 15. ____

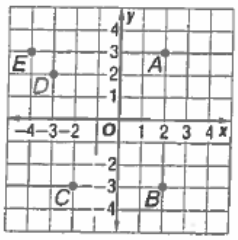
16. $-15 \div (-5)$

F. $-20$ G. $-10$ H. $-3$ I. 3 16. ____

17. ALGEBRA Find the value of $c$ if $-28 \div c = -7$.

A. $-4$ B. 21 C. 4 D. $-21$ 17. ____

**For Questions 18 and 19, use the coordinate plane at the right.**




18. Identify the point for the ordered pair $(2, -3)$.

F. point $A$ G. point $B$
H. point $C$ I. point $D$ 18. ____

19. Write the ordered pair that names point $E$.

A. $(-3, 4)$ B. $(3, -4)$
C. $(-4, 3)$ D. $(4, -3)$ 19. ____

20. Identify the quadrant where the point named by $(2, -5)$ is located.

F. Quadrant I G. Quadrant II
H. Quadrant III I. Quadrant IV 20. ____

**Bonus** ALGEBRA Find the value of $ab + (-4)$ if $a = -9$ and $b = -3$. B: _____

CHAPTER 9

NAME _____ DATE _____ PERIOD ____

# Chapter 9 Test, Form 2A

SCORE ____

***Write the letter for the correct answer in the blank at the right of each question.***

1. Rewrite $8(10 + 7)$ using the Distributive Property.
   A. $(8 \times 10)(8 \times 7)$ B. $(8 + 10)(8 + 7)$
   C. $8(10) + 8(7)$ D. $8 \times 10 + 7$ 1. ____

2. To find $30 \times 4.3$ mentally using the Distributive Property, you would first think:
   F. $30 \times 4.3 = 30(4 + 0.3)$. G. $30 \times 4.3 = 30 \times 4 + 0.3$.
   H. $30 \times 4.3 = 30 + (4 + 0.3)$. I. $30 \times 4.3 = 30 \times 4 \times 0.3$. 2. ____

3. To find $75 + 63 + 25$ mentally, you would first think:
   A. $75(63 + 25)$. B. $(75 + 25) + 63$.
   C. $(63 + 25) + 75$. D. $(75 + 25)63$. 3. ____

4. Solve $y + 3 = 7$.
   F. 10 G. $-10$ H. 4 I. $-4$ 4. ____

5. Solve $1 + x = 3$.
   A. 2 B. $-2$ C. 4 D. $-4$ 5. ____

6. Solve $-5 = w + 1$.
   F. 6 G. $-6$ H. 4 I. $-4$ 6. ____

7. Solve $r - 3 = 3$.
   A. 0 B. 6 C. $-6$ D. $-3$ 7. ____

8. Solve $-5 = g - 1$.
   F. $-4$ G. 4 H. $-6$ I. 6 8. ____

9. Solve $p - 4 = -6$.
   A. 10 B. $-10$ C. 2 D. $-2$ 9. ____

10. Solve $8m = -40$.
    F. 5 G. $-5$ H. 320 I. $-320$ 10. ____

11. Solve $-15 = -3n$.
    A. 45 B. $-45$ C. 5 D. $-5$ 11. ____

12. AGE Al's father is 3 times as old as Al. Al's father is 36 years old. Which equation could you solve to find Al's age?
    F. $3 + x = 36$ G. $36x = 3$ H. $3x = 36$ I. $36 - x = 3$ 12. ____

13. Solve $-2 = -11 + 3c$.
    A. 9 B. $-9$ C. 3 D. $-3$ 13. ____

14. Solve $-5 = 3b + 1$.
    F. $1\frac{1}{3}$ G. $-2$ H. 2 I. $-1\frac{1}{3}$ 14. ____





Assessment

CHAPTER 9

NAME _____ DATE _____ PERIOD ____

# Chapter 9 Test, Form 2A *(continued)*

15. Solve $4 - 5t = 39$.
A. 44 B. $-7$ C. 35 D. $-8\frac{3}{5}$ 15. ____

16. Solve $2g - 18 = -8$.
F. 5 G. $-5$ H. 9 I. 1 16. ____

17. Find the rule for the function table.
A. $3n$ B. $\frac{1}{3}n$
C. $n - 10$ D. $n - 4$

| Input ($n$) | Output (■) |
|---|---|
| 15 | 5 |
| 6 | 2 |
| $-9$ | $-3$ |

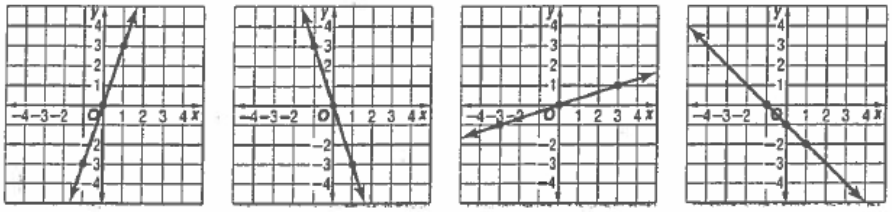
17. ____

18. Given the rule $3x - 2$, what is the output for an input of $-3$?
F. 7 G. $-11$ H. 11 I. $-2$ 18. ____

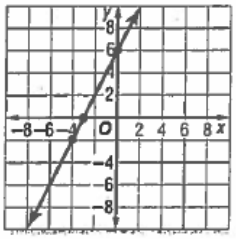
19. Which graph represents the function table at the right?

| Input ($x$) | Output ($\frac{x}{3}$) |
|---|---|
| $-3$ | $-1$ |
| 0 | 0 |

A. B. C. D. 19. ____



20. Which function table represents the graph at the right?



20. ____

F.

| Input | Output |
|---|---|
| $-4$ | $-2$ |
| $-3$ | 0 |
| 0 | 6 |

G.

| Input | Output |
|---|---|
| $-2$ | $-4$ |
| 0 | $-3$ |
| 6 | 0 |

H.

| Input | Output |
|---|---|
| 4 | 2 |
| 3 | 0 |
| 0 | 6 |

I.

| Input | Output |
|---|---|
| 2 | 4 |
| 0 | 3 |
| 6 | 0 |

**Bonus** Find the rule for the function table.

| Input ($x$) | Output (■) |
|---|---|
| 1 | $\frac{1}{4}$ |
| 3 | $\frac{3}{4}$ |
| 4 | 1 |

B: _____

CHAPTER 10

NAME _____ DATE _____ PERIOD ____

# Chapter 10 Test, Form 2A

SCORE ____

*Write the letter for the correct answer in the blank at the right of each question.*

**Write each ratio as a fraction in simplest form.**

1. 42 girls out of 56 people

A. $\frac{4}{3}$ B. $\frac{42}{56}$ C. $\frac{6}{8}$ D. $\frac{3}{4}$ 1. ____

2. 15 apples to 10 oranges

F. $\frac{2}{3}$ G. $\frac{3}{2}$ H. $\frac{15}{10}$ I. $\frac{10}{15}$ 2. ____

**Write each ratio as a unit rate.**

3. 350 kilometers in 5 hours

A. 70 kilometers B. $\frac{70 \text{ kilometers}}{1 \text{ hour}}$ C. $\frac{\frac{1}{7} \text{ kilometer}}{1 \text{ hour}}$ D. $\frac{350 \text{ kilometers}}{5 \text{ hours}}$ 3. ____

4. $80 for 10 tickets

F. $\frac{\$80}{10 \text{ tickets}}$ G. 8 tickets H. $\frac{\$8}{1 \text{ ticket}}$ I. $\frac{8 \text{ tickets}}{\$1}$ 4. ____

**Solve each proportion.**

5. $\frac{18}{27} = \frac{x}{18}$

A. 12 B. 324 C. $\frac{2}{3}$ D. 27 5. ____

6. $\frac{28}{y} = \frac{4}{7}$

F. 16 G. 50 H. 49 I. 196 6. ____

ARCHITECTURE **For Questions 7 and 8, use the following information.**
On a set of architectural drawing plans, the scale is 1 inch = 8 feet.

7. Find the actual length of a room if the length of the room measures 3 inches on the plans.

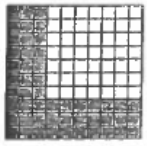
A. 6 feet B. 24 feet C. 5 feet D. 22 inches 7. ____

8. Find the actual width of a room if the width is $1\frac{3}{4}$ inches on the plans.

F. $3\frac{1}{2}$ feet G. 22 feet H. 6 feet I. 14 feet 8. ____

9. Identify the percent modeled at the right.

A. 60% B. 49%
C. 51% D. 40%



9. ____

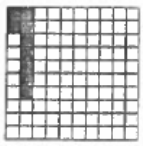
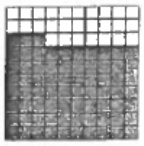
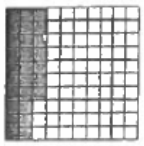
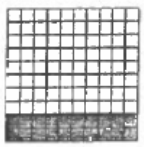
Assessment

CHAPTER 10

NAME _____ DATE _____ PERIOD ____

# Chapter 10 Test, Form 2A *(continued)*

**10.** In which model is 27% of the figure shaded?

F.  G.  H.  I.  10. ____

**11.** Write 154% as a fraction in simplest form.

A. $\frac{100}{154}$ B. $\frac{50}{77}$ C. $1\frac{27}{50}$ D. $\frac{27}{50}$ 11. ____

**12.** Write $\frac{17}{20}$ as a percent.

F. 85% G. 17% H. 34% I. 95% 12. ____

**13.** MONEY What percent of a dollar is a quarter?

A. 0.025% B. 0.25% C. 2.5% D. 25% 13. ____

**14.** Write 141% as a decimal.

F. 14.1 G. 1.41 H. 0.141 I. 141 14. ____

**15.** Write 0.054 as a percent.

A. 5.4% B. 54% C. 0.00054% D. 0.54% 15. ____

**16.** Which percent is greater than 0.4?

F. 29% G. 42% H. 39% I. 25% 16. ____

**Find the percent of each number.**

**17.** 12% of 84

A. 1,008 B. 7 C. 10.08 D. 100.8 17. ____

**18.** 30% of 242

F. 726 G. 7.26 H. 72.6 I. 8.07 18. ____

**Estimate each percent.**

**19.** 49% of 598

A. 3 B. 30 C. 300 D. 3,000 19. ____

**20.** 21% of 387

F. 80 G. 0.8 H. 800 I. 8 20. ____

**Bonus** A 300-gram candle burns 45% of its weight. Find the mass of the remaining candle. B: _____

CHAPTER 11

NAME _____ DATE _____ PERIOD ____

# Chapter 11 Test, Form 2A

SCORE ____

***Write the letter for the correct answer in the blank at the right of each question.***

1. Which of the following could *not* represent the probability of an event?
   A. 0 B. 0.67 C. 47.9 D. $\frac{7}{34}$ 1. ____

2. A number card from 1 to 8 is randomly chosen. What is $P(5)$?
   F. 1 G. 12% H. 0.125 I. $\frac{5}{8}$ 2. ____

3. A number cube is rolled. What is $P$(greater than 2)?
   A. 4 B. $66.\overline{6}\%$ C. 0.5 D. $\frac{1}{3}$ 3. ____

**GAMES For Questions 4–10, use the table. A carnival has a tub of ducks with colored stickers on the bottom. Each player chooses one duck without looking and then replaces it.**

| Color | Number | Prize |
|---|---|---|
| Red | 14 | Small |
| Blue | 8 | Medium |
| White | 2 | Large |

4. What is the probability of winning a small prize?
   F. 14% G. 1 H. $\frac{7}{12}$ I. $\frac{1}{3}$ 4. ____

5. What is the probability of *not* winning a large prize?
   A. 98% B. $\frac{1}{12}$ C. $\frac{11}{12}$ D. $\frac{23}{24}$ 5. ____

6. What is the probability of winning a large or a medium prize?
   F. 10% G. $\frac{5}{12}$ H. $\frac{5}{24}$ I. $\frac{14}{24}$ 6. ____

7. Out of 18 plays, predict how many people will win a medium prize.
   A. 10 B. 9 C. 6 D. 2 7. ____

8. If 204 prizes are bought, how many should be medium prizes?
   F. 102 G. 68 H. 100 I. 51 8. ____

9. If Kent plays two separate times, what is the probability he wins a small prize both times?
   A. 28% B. $\frac{28}{144}$ C. $\frac{49}{144}$ D. $\frac{2}{48}$ 9. ____

10. Late in the day, the large prizes are all gone. The ducks with white stickers are removed. What is the new probability of winning a small prize?
    F. 14% G. $\frac{7}{11}$ H. $\frac{7}{12}$ I. $\frac{7}{22}$ 10. ____

11. A red, a blue, a green, a yellow, and an orange marble are in a bag. Use a list to find how many different ways a person can choose 2 marbles from the bag.
    A. 25 B. 10 C. 16 D. 125 11. ____

12. Ivory wants to survey 100 people to find their favorite sport. Where is the best place for Ivory to get a good sample?
    F. at the skating rink G. at the post office
    H. at a ski resort I. at the golf course 12. ____

Assessment

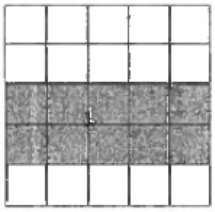
CHAPTER 11

NAME _____ DATE _____ PERIOD ____

# Chapter 11 Test, Form 2A *(continued)*

13. FOOD For breakfast, Mateo can have an onion, garlic, sesame, or poppy seed bagel with cream cheese or butter. Use a tree diagram to find how many outcomes are possible.
A. 4 B. 6 C. 8 D. 16 13. ____

**For Questions 14–16, use the dartboard at the right.**

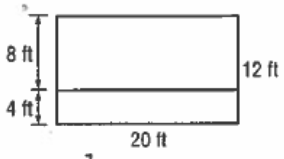


14. What is the probability that a randomly thrown dart will land in a shaded region of the dartboard
F. $\frac{2}{3}$ G. $\frac{3}{5}$
H. $\frac{12}{25}$ I. $\frac{2}{5}$ 14. ____

15. What is the probability that a randomly thrown dart will land in a region of the dartboard that is *not* shaded?
A. $\frac{1}{3}$ B. $\frac{2}{5}$ C. $\frac{3}{5}$ D. $\frac{13}{25}$ 15. ____

16. Della throws 20 darts. Predict how many will land in a shaded region.
F. 10 G. 8 H. 6 I. 16 16. ____

17. SPORTS One wall of a handball court has a horizontal line used as a marker as shown at the right. What is the probability that a randomly thrown ball will hit the wall below the line shown?




A. $\frac{1}{5}$ B. $\frac{1}{3}$ C. $\frac{1}{5}$ D. $\frac{1}{4}$ 17. ____

**Two number cubes are rolled.**

18. What is $P$(2 and 3)?
F. $\frac{1}{12}$ G. $\frac{1}{6}$ H. $\frac{1}{36}$ I. $\frac{1}{3}$ 18. ____

19. What is $P$(odd and even)?
A. 0 B. $\frac{1}{6}$ C. $\frac{1}{4}$ D. $\frac{1}{2}$ 19. ____

20. What is $P$(1 and greater than 2)?
F. $\frac{5}{36}$ G. $\frac{5}{6}$ H. $\frac{1}{9}$ I. $\frac{2}{3}$ 20. ____

**Bonus** Draw a spinner with three colors—blue, red, and yellow—so that the probability of landing on yellow is 0.4 and the probability of landing on blue is 0.2. **B:**