



6th Grade Assessment Trimester 3
—ANSWER KEY—

Chapter 7

(NS 1.2, 1.3, 1.4)

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. What is 64% of 25? 1. b
a. 160 c. 15
b. 16 d. 2.6

2. 15% of the 20 players on the soccer team are new this year.
How many players on the team are new this year? 2. a
a. 3 c. 10
b. 6 d. 15

3. 36% of what number is 27? Round to the nearest tenth if necessary. 3. a
a. 75 c. 1.3
b. 9.7 d. 0.8

4. Maria has lunch at a restaurant and needs to determine how much tip to leave based on her bill. If her bill was \$11.81 and Maria wants to leave a 22% tip, what is a reasonable estimate for how much she should leave? 4. d
a. \$1.50 c. \$3.50
b. \$2.00 d. \$2.60

5. Find each percent of change. Round to the nearest whole percent if necessary. State whether the percent of change is an increase or decrease. 5. c

Original: 200; New: 300

- a. 33% decrease c. 50% increase
- b. 50% decrease d. 100% increase

6. Find the total cost (sale price) to the nearest cent.
\$2000 stereo; 30% discount

6. \$1400

7. Find the interest earned to the nearest cent.
\$350, 6%, 1 year

7. \$21

Chapter 8

(SDAP 2.5)

For questions 8-11 use this chart. It shows the population of known aliens on 5 planets.

Alien population on certain planets	Population
Mars	25,000
Neptune	20,000
Saturn	18,000
Venus	15,000
Pluto	12,000

8. Find the mean of the data in the chart above.

8. 18,000

9. Find the median of the data in the chart above.

9. 18,000

10. If you eliminate (take out) Mars' population from the data in the chart,
What would the mean be?

10. 16,250

11. If you eliminate (take out) Mars' population from the data in the chart,
what would the median be?

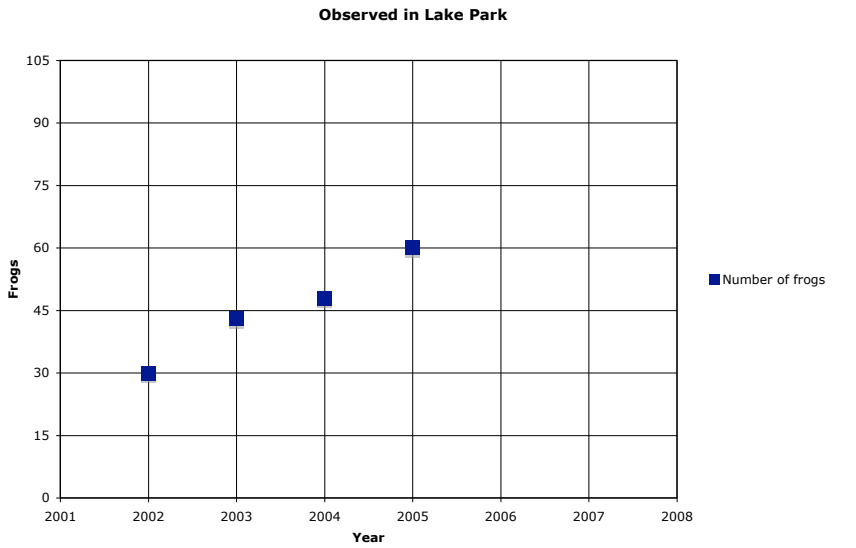
11. 16,500

12. What would change more if Mars' population data was eliminated
(taken out) from the chart, the mean or the median?

12. Mean

13. Use the chart below to predict the number of frogs there will be in the year 2006

13. c



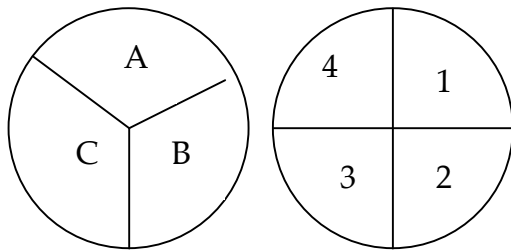
- a. 55
- b. 60
- c. 75
- d. 90

Chapter 9

(SDAP 3.1, 3.3, 3.5)

14. Two spinners are shown below

14. b



Spinner 1

Spinner 2

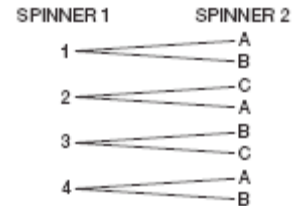
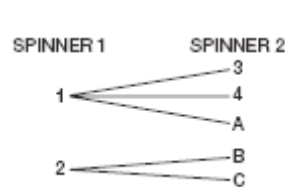
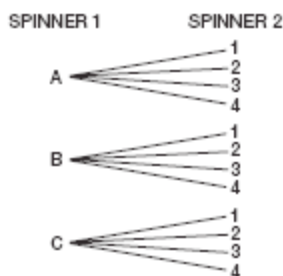
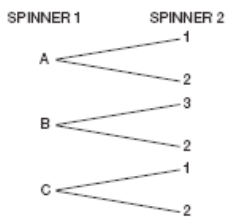
Which tree diagram shows all the possible outcomes of spinning both spinners?

a.

b.

c.

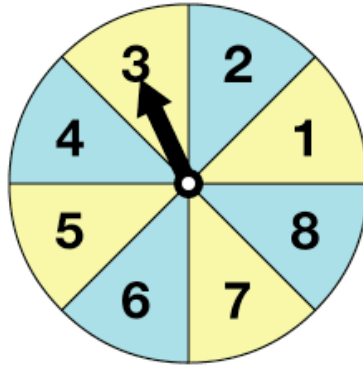
d.



15. Use the spinner to find the probability of spinning a 2 or a 3.

15. $\frac{1}{4}$ ___

Write it as a fraction in simplest form.



16. Use the Fundamental Counting Principle to find the total number of outcomes. Sally has 4 shirts, 3 pants, and 2 jackets. How many different outfits can she make if she chooses 1 shirt, 1 pair of pants, and 1 jacket for each outfit?

16. 24

If one dog is randomly selected for a 30-minute training session, find the probability for each event. **The fractions are written in simplest form.**

Types of Dogs	
Pointers	6
Retrievers	18

17. P(retriever)

17. a

a. $\frac{3}{4}$

c. $\frac{1}{2}$

b. $\frac{3}{5}$

d. $\frac{3}{8}$

18. P(cat)

18. a

a. 0

c. $\frac{1}{2}$

b. $\frac{1}{100}$

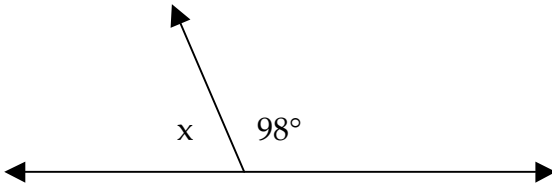
d. 1

Chapter 10

(MG 2.2, 2.3, MR 1.2)

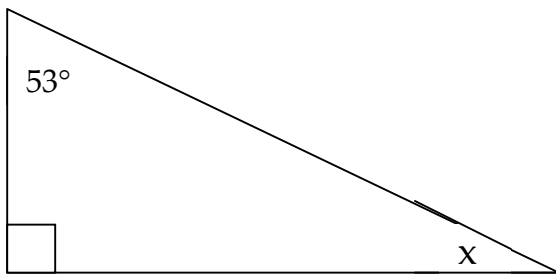
19. Find the value of x in the figure.

19. 82°



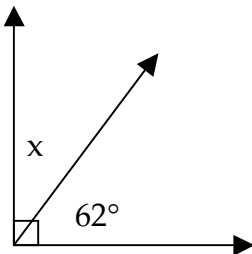
20. Find the value of x in the triangle.

20. 37°



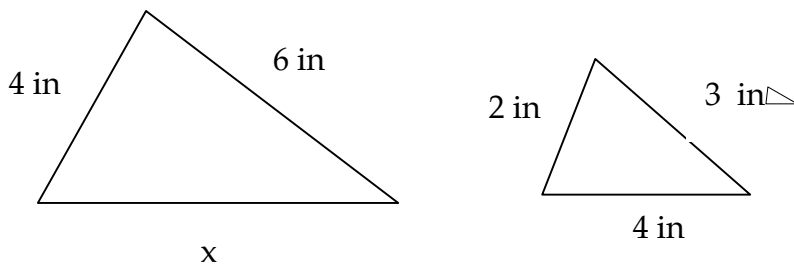
21. Find the value of x in the following figure.

21. 28°



22. Find the value of x in the pair of similar figures

22. 8 in.

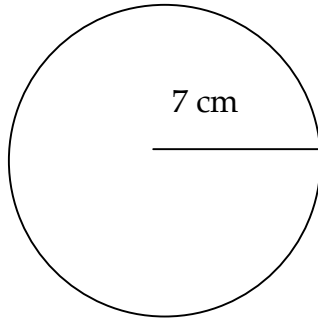


Chapter 11

(MG 1.1)

23. Find the **Area** of this circle to the nearest tenth.
First, write your equation.
Then solve the equation. Show all your work.

23. 153.9 cm^2



24. Find the **Circumference** to the nearest tenth.
First write your equation.
Then solve the equation. Show all your work.

24. 31.4 ft.

