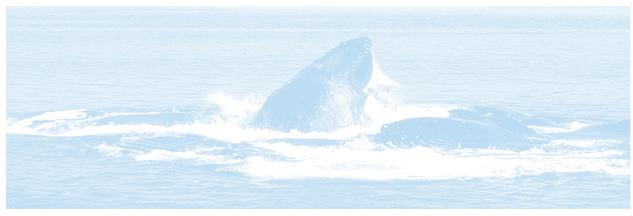


Comprehensive System of Student Assessment

Standards Based Assessments

Grade 6 Reading ★ Writing ★ Mathematics Practice Test Book





Spring 2007

Alaska Department of Education & Early Development

Name:

You may use the Mathematics Reference Sheet any time during the test.

- 1. A cubic inch of water weighs 0.036 pound. Which fraction is equal to the weight of a cubic inch of water?
 - $A \qquad \frac{1}{360}$
 - B $\frac{1}{36}$
 - C $\frac{36}{1,000}$
 - $D \qquad \frac{36}{100}$
- 2. A scale showed a weight of 38 ounces. Which weight shown below is equal to 38 ounces?
 - A 2 pounds, 6 ounces
 - B 2 pounds, 8 ounces
 - C 3 pounds, 2 ounces
 - D 3 pounds, 8 ounces

- 3. Myra bicycled 3 days in a row.
 - She traveled 12.87 miles on the first day.
 - She traveled 19.04 miles on the second day.
 - She traveled 22.86 miles on the last day.

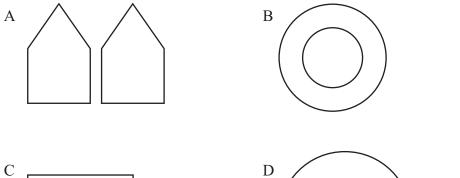
What is Myra's total mileage rounded to the nearest tenth?

- A 50.0 miles
- B 54.6 miles
- C 54.8 miles
- D 55.0 miles
- 4. Leo noticed that the number series below followed a pattern.

What is the next number in the pattern?

- A 22
- B 24
- C 27
- D 30

5. Which set shows congruent shapes?

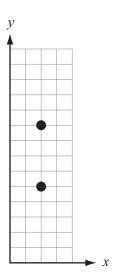


Turn to page 23 in your practice test answer booklet to complete question 6.

- 7. For a party, all the pies were cut into sixths. After the party, 26 pieces were left. Which mixed number represents the total number of pies left?
 - A $3\frac{2}{6}$ pies
 - B 4 pies
 - C $4\frac{2}{6}$ pies
 - D 20 pies
- 8. Anthony was at work for 6 hours and 50 minutes. He arrived at work at 8:25 AM. At what time did Anthony leave work?
 - A 1:35 PM
 - В 2:15 РМ
 - C 3:15 PM
 - D 3:35 PM

- 9. It snowed 4 times during October. The snowfall amounts were 0.75 inches, 1.93 inches, 4.73 inches, and 2.33 inches. What was the total snowfall for October?
 - A 7.64 inches
 - B 7.74 inches
 - C 9.64 inches
 - D 9.74 inches
- 10. Victoria wrote a story about a monster that doubles its weight every day. On the first day, the monster weighed 250 pounds. On what day did the monster first weigh 4,000 pounds?
 - A day 4
 - B day 5
 - C day 6
 - D day 8

11. There are 2 restaurants in River City located at map points (2, 5) and (2, 9).



Ben is building a new restaurant located halfway between the existing restaurants. What is the location of Ben's restaurant?

- A (2, 13)
- B (2,7)
- C (2, 4)
- D (2, 1)

Turn to page 25 in your practice test answer booklet to complete question 12.

- 13. In a school fundraiser, each class recorded the amount of money they earned last week. Which type of graph would be most appropriate for displaying this information?
 - A bar graph
 - B circle graph
 - C line graph
 - D pictograph
- 14. The table below shows approximate flight times between Petersburg and other cities.

Flight Times From Petersburg

То	Time (in minutes)
Anchorage	170
Seattle	150
Ketchikan	45
Juneau	30
Sitka	35

What is the mean flight time?

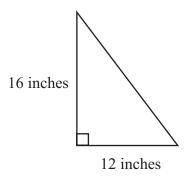
- A 45 minutes
- B 86 minutes
- C 140 minutes
- D 170 minutes

- 15. Kirima bought 4 jackets for her children. Each jacket cost \$37.19 with tax added. What was the total cost of the 4 jackets?
 - A \$ 81.76
 - B \$128.46
 - C \$128.76
 - D \$148.76
- 16. Sheena started the pattern shown below.

Which rule could she have used to create her pattern?

- A subtract 60 from a number and then add 30
- B decreasing numbers that are multiples of 10
- C factors of 120
- D divide a number by 2 and then subtract 30 from the same number

17. A triangle is shown below.

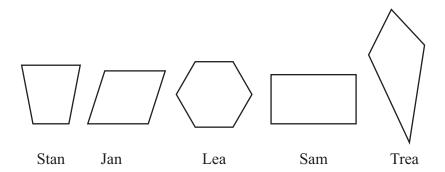


What is the area of the triangle in square inches?

- A 56
- B 96
- C 192
- D 384

Turn to page 27 in your practice test answer booklet to complete question 18.

- 19. Ms. Green asked her class for volunteers to work at the school carnival. Each student could volunteer to do only one job. She had $\frac{1}{3}$ of the class volunteer to decorate, $\frac{1}{4}$ to serve food, and $\frac{1}{6}$ to clean up. Exactly what fraction of Ms. Green's students volunteered?
 - A $\frac{1}{13}$
 - B $\frac{3}{13}$
 - $C = \frac{3}{12}$
 - D $\frac{9}{12}$
- 20. Mr. Smith gave each of these children a polygon.



He asked those who had parallelograms to stand up. Which children should stand up?

- A Jan and Sam
- B Sam and Trea
- C Stan, Jan, and Sam
- D Jan, Lea, and Sam

21. Jolene asked 60 students to name their favorite juice. She recorded the data in the table below.

Favorite Juices

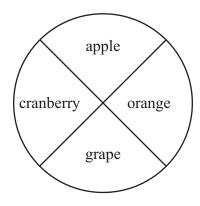
Juice Type	Number of Responses
apple	20
orange	15
grape	15
cranberry	10

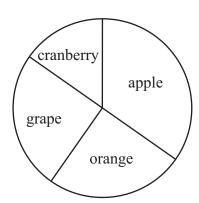
Which circle graph represents Jolene's data?

A **Favorite Juices**

В

Favorite Juices





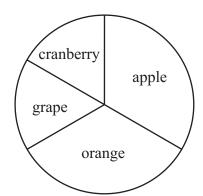
C

Favorite Juices

cranberry apple

grape orange D

Favorite Juices



- 22. Herman's bread recipe required 1 cup of water, but Herman only had a measuring cup with fluid-ounce markings. How many fluid ounces did the recipe require?
 - A 8
 - B 10
 - C 12
 - D 16
- 23. The Venn diagram shows the colors of stripes on the kittens in a new litter.

yellow black
4 2 3

How many kittens had **some** yellow stripes?

- A 2
- B 4
- C 6
- D 9

24. The distance from Anchorage, Alaska, to Honolulu, Hawaii, is 2,778 miles. Which shows the number 2,778 written in expanded form?

A
$$(27 \times 1,000) + (7 \times 10) + (8 \times 1)$$

B
$$(2 \times 1,000) + (7 \times 100) + (78 \times 10)$$

C
$$(2 \times 10,000) + (7 \times 100) + (7 \times 10) + (8 \times 1)$$

D
$$(2 \times 1,000) + (7 \times 100) + (7 \times 10) + (8 \times 1)$$

- 25. The school office ordered 24 boxes of pens. Their total cost was \$191.52. What was the cost of 1 box of pens?
 - A \$7.02
 - B \$7.20
 - C \$7.98
 - D \$8.00

26. Jeff recorded his bowling scores for 8 games.

What is the median of Jeff's scores?

- A 60
- B 137
- C 140
- D 142
- 27. A baker made the chart below to show how many brownies he baked based on how many bowls of batter he made.

Baker's Brownies

Number of Bowls	Number of Brownies
3	36
6	72
9	108
12	144

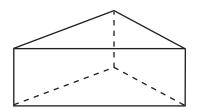
What is the relationship between the number of bowls of batter and the number of brownies made?

- A The number of brownies equals the number of bowls divided by 12.
- B The number of brownies equals the number of bowls multiplied by 12.
- C The number of brownies equals 33 more than the number of bowls.
- D The number of brownies equals 10 times the number of bowls plus 6.

- 28. To determine how much her plant grew, Leisha subtracted $\frac{5}{4}$ inches from $\frac{15}{8}$ inches. Which step is **most** useful to perform the subtraction?
 - A Find the greatest common factor of 5 and 15.
 - B Find the greatest common factor of 4 and 8.
 - C Find the least common multiple of 5 and 15.
 - D Find the least common multiple of 4 and 8.
- 29. It is 6:00 PM in Fairbanks when Sal calls Jim. Jim is in Chicago. The time in Chicago is 3 hours later than the time in Fairbanks. What time is it in Chicago when Jim gets Sal's phone call?
 - А 3:00 рм
 - В 5:00 рм
 - С 9:00 рм
 - D 10:00 PM

- 30. Liam took pictures with his camera using a roll of film that could hold 24 pictures. At the end of the day, Liam had 6 pictures left on the roll of film. Use the equation 24 x = 6 to find how many pictures Liam took that day. What is the value of x?
 - A x = 18
 - B x = 19
 - C x = 22
 - D x = 30
- 31. Lily designed the package below to hold the bars of soap she makes.

Lily's Package



What is the shape of Lily's package?

- A cone
- B pyramid
- C rectangular prism
- D triangular prism

END SESSION

STOP