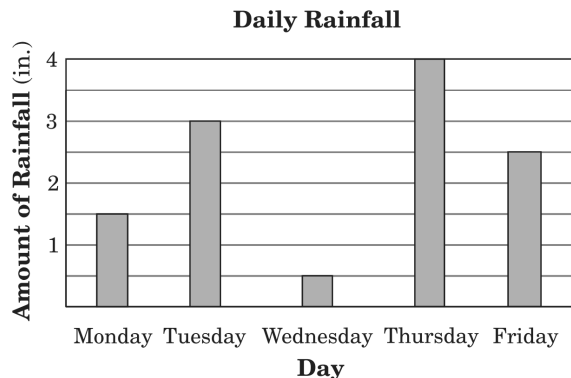


Name: _____

Date: _____

- There are 20 teachers and 705 students in Corey's school. What is the ratio of teachers to students?
- Jan's flower garden has only daffodils and tulips in it. There are 15 daffodils and 12 tulips. What is the ratio of the number of tulips to the total number of flowers in Jan's garden?
- For dinner last night Mattie ate 35 peas and 5 carrots. Which explanation about the ratio of peas to carrots is true?
 - For every 1 pea Mattie ate, she ate 7 carrots. The ratio of peas to carrots Mattie ate is 1 : 7.
 - For every 5 peas Mattie ate, she ate 7 carrots. The ratio of peas to carrots Mattie ate is 5 : 7.
 - For every 7 peas Mattie ate, she ate 1 carrot. The ratio of peas to carrots Mattie ate is 7 : 1.
 - For every 7 peas Mattie ate, she ate 5 carrots. The ratio of peas to carrots Mattie ate is 7 : 5.
- What is the ratio of the amount of rainfall on Wednesday to the amount of rainfall on Friday?



- Which set of data below does *not* show a constant rate of change?

A.

Cups of Flour	Cookies Made
2	24
4	48
6	72

B.

Number of Books	Price Paid
6	\$30.00
12	\$60.00
18	\$90.00

C.

Time	Pages Read
2 hours	80
4 hours	160
6 hours	240

D.

Games	Total Points Scored
3	15
6	20
12	25

- Give the unit rate of the following:
If 15 lbs. of chicken cost \$56.85, what is the cost of one pound?
- A car made a trip of 352 miles on 16.8 gallons of gasoline. Which is closest to the number of miles per gallon the car got on that trip?
 - 10 mpg
 - 20 mpg
 - 30 mpg
 - 40 mpg

8. Jazzi rode her bike at a constant rate for 9 hours. The table below shows how many hours she biked and how many calories she burned.

Jazzi's Bike Ride

Hours	Calories Burned
2	460
5	1,150
6	1,380
8	1,840
9	2,070

How many calories did Jazzi burn per hour?

9. Water comes out of Leigh's garden hose at a rate of 1 gallon per $\frac{1}{4}$ of a minute. What is the unit rate at which water flows out of Leigh's garden hose?
- A. $\frac{1}{4}$ of a gallon per 4 minutes
 B. $\frac{3}{4}$ of a gallon per minute
 C. 4 gallons per minute
 D. 9 gallons per 4 minutes
10. Gary can hike 2.5 miles in 30 minutes. At that rate, how long will it take him to hike the 8 miles to Chena Lake?
11. When mixing concrete, 3 buckets of sand are used for every 4 buckets of gravel used. How many buckets of sand should be mixed with 24 buckets of gravel?
12. Set up a ratio for the following. Simplify if possible, (use fraction form).
 A dozen eggs to 36 eggs
13. A recipe calls for $\frac{2}{3}$ cup of butter to make $2\frac{1}{2}$ cups of sauce
 What would be the amount of butter needed to make 10 cups of sauce?
14. Megan uses $\frac{2}{3}$ cup of almonds to make 4 cups of trail mix. Using this same proportion, how many cups of almonds would Megan need to make 9 cups of trail mix?

15. From the information given in the table below use estimation to choose the brand with the lowest price per ounce.

Brand of soft drink	Price	Number of ounces
CC-cola	\$1.25	12 fl. oz. can
Peppy Soda	\$1.98	20 fl. oz. bottle
Sparkle	\$3.95	64 fl. oz. bottle
Queen Soda	\$5.25	6-pack of 12 fl. oz. cans

16. Greta is making soup and needs to buy broth. She is able to buy cans of broth in the four different sizes listed below.
- Can A costs \$3.84 for 32 ounces.
 - Can B costs \$1.40 for 14 ounces.
 - Can C costs \$3.96 for 49.5 ounces.
 - Can D costs \$1.60 for 14.5 ounces.

Which can costs the *least* per ounce?

17. Sean drove for 6 hours from his home to his aunt's house near Seligman. He averaged between 55 miles per hour and 75 miles per hour. Which of the following is a reasonable total distance that he drove on this trip?
- A. 300 B. 390 C. 450 D. 500
18. Sally paid \$1.89 for 5 plums. About how many plums would she get for \$10?
19. A farmer harvested 14,000 pounds of almonds from an 8-acre orchard. Which proportion could be solved to find x , the expected harvest from a 30-acre orchard?
- A. $\frac{8}{14,000} = \frac{x}{30}$ B. $\frac{8}{14,000} = \frac{30}{x}$
 C. $\frac{30}{14,000} = \frac{x}{8}$ D. $\frac{30}{14,000} = \frac{8}{x}$

20. During a sale, Erica saved \$1 for every \$8 she would have spent in regular costs. The regular cost of the items that Erica bought during the sale was \$104. Which proportion can be used to find s , the amount of money in dollars that Erica saved?

- A. $\frac{1}{104} = \frac{s}{8}$ B. $\frac{8}{104} = \frac{1}{s}$
 C. $\frac{s}{104} = \frac{8}{1}$ D. $\frac{s}{104} = \frac{1}{8}$

21. If $\frac{10.3}{5.62} = \frac{n}{4.78}$, then, of the following, which is closest to n ?

- A. 2.61 B. 3.83 C. 8.76 D. 8.82

22. The proportion $\frac{2.70}{6} = \frac{k}{24}$ can be used to determine the cost, in dollars, of one case of juice at a store (k). What is the cost of one case of juice at the store?

23. Cameron knows that 2 dogs are given 8 cups of food and 3 dogs are given 12 cups of food. How much food will be given to 5 dogs?

24. The table below shows the relationship between the amount of line used and the depth of a fishing lure.

Fishing Lines and Lures

Amount of Line Used (feet)	Depth of Lure (feet)
20	4
40	8
60	12
80	16

The pattern in the table continues. Sally used 200 feet of line. What was the depth of the lure for 200 feet of line?

25. A travel company assigns one guide for every 8 tourists who go on a tour, as shown in the table below.

Guide Assignments

Number of Tourists	Number of Guides
8	1
16	2
24	3
32	4

Based on this table, what is the total number of guides that will be assigned to 40 tourists?

26. The table below shows the number of pounds of fertilizer needed to cover a given area.

Fertilizer Coverage

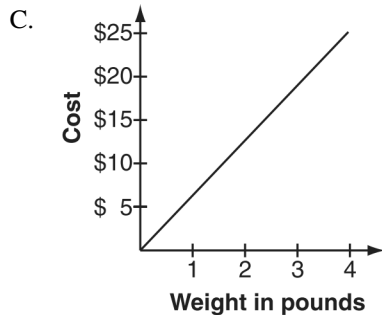
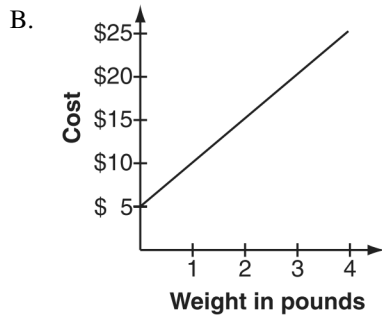
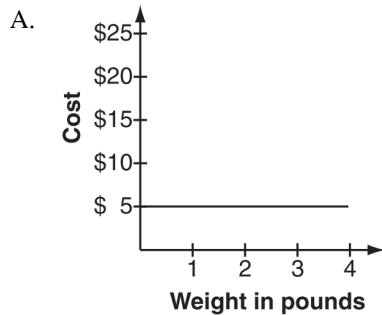
Pounds	Square Yards of Coverage
4	100
8	200
12	300
16	400

Based on the pattern in the table, how many pounds of fertilizer are needed to cover 600 square yards?

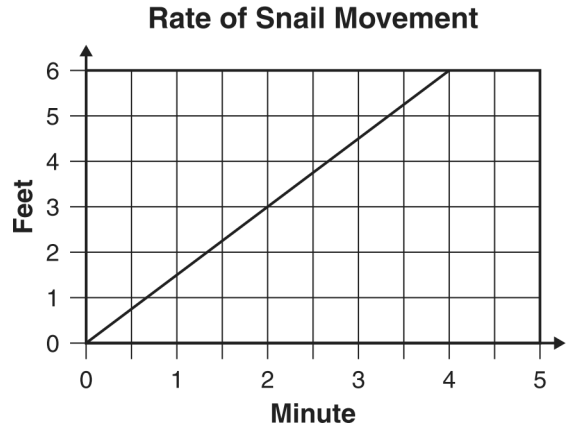
27. The chart below shows the cost of different weights of chocolate fudge at the Sweet Shop.

Weight	Cost
1 pound	\$ 5
2 pounds	\$10
3 pounds	\$15
4 pounds	\$20

Which graph best shows the relationship between weight and cost shown in the chart?



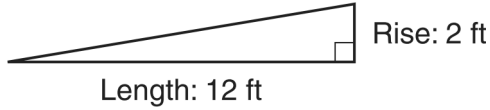
28. A snail is trying to get to the other side of a park. At what rate is the snail traveling?



29. An airplane is 30 miles away when it appears on the airport's radar. It is flying directly toward a runway at 2 miles per minute. If the speed and heading of the airplane remain constant, in how many minutes will the airplane be 5 miles from the runway? (Use $d = rt$)
30. A grocery store sells 2 cans of soup for \$1.50. If this relationship is graphed with the number of cans on the x -axis and the cost on the y -axis, what is the slope of the graph in dollars per can?
31. It took a submarine 20 seconds to drop to 100 feet below sea level from the surface. What was the rate of the descent?
32. Susan wants to ride her bicycle from Franklin, Louisiana, to New Iberia, which is 21 miles away. She plans on completing the bike ride in 3 hours. At what average speed should she travel?
33. Harrison High School has 768 students. In 6 years, it is projected to have 1,157 students. What is the projected average rate of change per year in students over this time period? Round your answer to the nearest student.
34. When she began a new exercise program, Abigail could do only 9 minutes of high intensity exercises. At the end of the first week, she could do a maximum of 18 minutes of the same exercises. By the end of the third week, she had increased her maximum time for these exercises to 30 minutes. What was her average rate of increase in minutes per week?

35. In 2000 Jim planted a tree that was $4\frac{1}{2}$ feet tall. In 2005 the tree was $15\frac{3}{4}$ feet tall. Assuming the growth of the tree is linear, what was the rate of growth of the tree?

36. The diagram below shows the steepness of a ramp.



Which statement describes the ramp's steepness?

- A. The ramp rises 1 foot for every 6 feet of length.
 B. The ramp rises 6 feet for every 1 foot of length.
 C. The ramp rises 1 foot for every 10 feet of length.
 D. The ramp rises 10 feet for every 1 foot of length.
37. The table below shows the data collected by a student observing a species of plant.

Plant Observations

Height (inches)	Number of Leaves
5	15
10	30
13	39

Based on the information shown in the table, which of these *best* describes the relationship between the change in the height of a plant from this species and the change in the number of leaves it has?

- A. For every 1 inch in height the plant grows, it adds 3 leaves.
 B. For every 3 inches in height the plant grows, it adds 1 leaf.
 C. For every 1 leaf the plant grows, it gains 1 inch in height.
 D. For every 3 leaves the plant grows, it gains 5 inches in height.

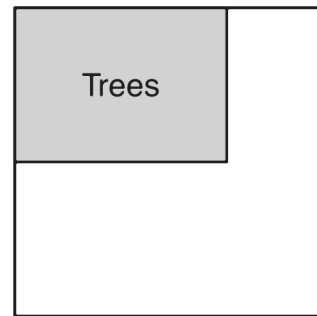
38. Jon and his friends painted a mural in art class. The shaded part of the figure below represents the part of the mural that Jon painted.



figure representing five equal sections of a wall, two sections are shaded Which of the following best represents the percent of the mural that Jon painted?

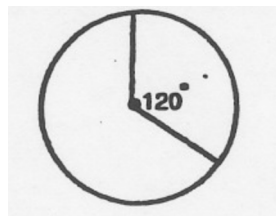
- A. 20% B. 25% C. 33% D. 40%
39. Which group shows 25% of the circles shaded?
- A.
- B.
- C.
40. This square is shaded gray to represent the part of Gibson's land that is covered with trees.

Gibson's Land



About what percent of Gibson's land is covered with trees?

41. What percent of the circle is the pie slice?



42. The table below shows the number of people who saw a movie at the Ritz Theater last week. Use this table to answer the following question.

**RITZ THEATER
ATTENDANCE**

Day	People
Sunday	294
Monday	200
Tuesday	187
Wednesday	218
Thursday	245
Friday	300
Saturday	326

The movie theater has 400 seats. How much of the theater was full on Friday?

43. Tomika collected data about the types of transportation that the juniors and seniors at her high school use to get to school. The table below shows the data that she collected.

Transportation to School

Type of Transportation	Number of Juniors	Number of Seniors
take the bus	284	73
walk/bicycle	30	26
travel by car	206	380
TOTAL	520	479

Based on the data in the table, which of the following is closest to the percent of juniors and seniors combined who take the bus to school?

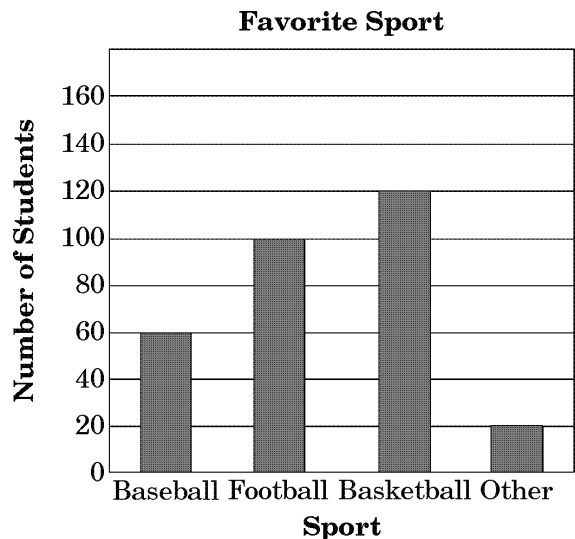
- A. 15% B. 35% C. 55% D. 65%

44. Some classmates compared their scores on a recent math test.

- Molly answered 15 out of every 20 questions correctly.
- Brittany answered 7 out of every 8 questions correctly.
- Desiree answered 7 out of every 10 questions correctly.
- Nick answered 4 out of every 5 questions correctly.

Which student answered more than 80% of the questions correctly?

45. John surveyed the students at his school to determine their favorite sport. The results are shown in the following graph.



What percent of the students selected baseball?

46. Karin was practicing her free throws. During one practice period she made 48 baskets and missed 12. What percent of the total shots did she make?
47. Harold found a ripe strawberry on 5 out of every 8 plants he checked. On what percent of the plants did Harold find a ripe strawberry?
48. Ramon surveyed his class and found that 28 out of 32 students preferred hamburgers to hot dogs. What percent is equivalent to $\frac{28}{32}$?

49. Some students attend school 180 of the 365 days in a year. About what part of the year do they attend school?
50. What is 60% of 30?
51. 60% of 240 =
52. What is 25% of 2,500?
53. Beth bought two new tires for her race car. Each tire originally cost \$74.95. She received a 15% discount.
How much did she pay for her two new tires?
54. Marcia saw a coat that originally cost \$40. She bought it on sale for 15% off the original price. How much did Marcia pay for the coat?
55. A CD player regularly sells for \$80. It is on sale for 20% off. What is the sale price of the CD player?
56. The original price of a new bicycle is \$138.00. If the bicycle is marked down 15%, what is the new price?
57. 40% of what number is 120?
58. The number 10 is 20% of what number?
59. A microwave oven is on sale for 20% off the regular price. The sale price is \$250.00. What is the regular price of the microwave oven?
60. A shirt is on sale for 40% off. The sale price is \$12. What was the original price? What was the amount of the discount?
61. A store donated \$45,000 to a local college. This amount was 1% of the store's profit, in dollars. What was the store's profit, in dollars?
62. There are 6 gallons of gas in a tank that is 20% full. How many gallons of gas are in a full tank?
63. Martha bought a bag of apples. She put 60% of the apples on the table. Her children ate 50% of the apples on the table. What percent of the bag of apples did the children eat?
64. Eight friends went out to dinner together before prom. The restaurant adds a gratuity (tip) of 15% to the total for groups of 8 or more. The cost of the meals was \$270.40, including tax. Which amount is closest to the total cost of dinner, including the gratuity?
65. The weekly sales of a magazine increased from 500,000 to 600,000. By what percentage did the magazine sales increase?
66. Traditions Clothing Store is having a sale. Shirts that were regularly priced at \$20 are on sale for \$17. What is the percentage of decrease in the price of the shirts?
67. The regular price of a pair of glasses is \$90. The glasses are on sale for a discount price of \$76.50. What is the percent of the discount?
68. The list price for a dress is \$90. If a discount of \$10.80 was given for paying cash, what percent of the list price was the discount?
69. Write 0.27 as a fraction.
70. $\frac{4}{100}$ is what percent?
71. .89 is what percent?
72. Convert the fraction or decimal to its equivalent percent.
 $\frac{18}{40} =$
73. Convert the fraction or decimal to its equivalent percent.
3.7 =
74. In a survey of eighth graders, $\frac{4}{5}$ of the students preferred using pens over pencils. What percent of the students preferred using pens?

75. Sandra conducted a survey. She found that 28% of drivers turn on their headlights when driving during the day. Which fraction is equivalent to 28%?

- A. $\frac{1}{28}$ B. $\frac{2}{8}$ C. $\frac{7}{25}$ D. $\frac{18}{25}$

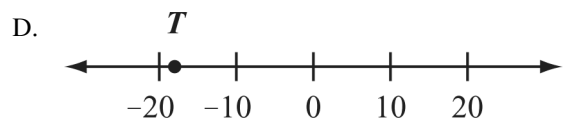
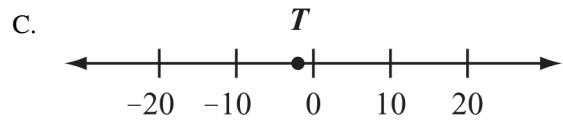
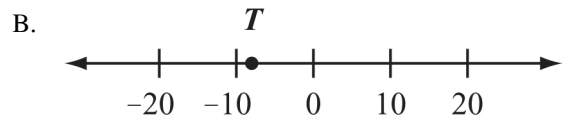
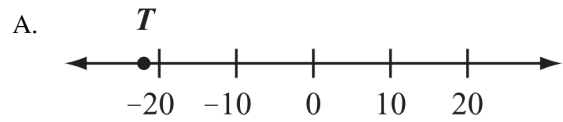
76. Complete the equivalency table. Simplify.

Percent	Fraction	Decimal
1. 210%		
2.	$\frac{3}{8}$	
3.		.075
4. .8%		
5.	$\frac{2}{5}$	

77. Complete the equivalency table. Write all fractions in simplest form.

Percent	Fraction	Decimal
1. 210%		
2.	$\frac{3}{8}$	
3.		.075
4. .8%		
5.	$\frac{2}{5}$	

78. The low temperature one night was -18°C . On which number line does point T best represent -18 ?



79. Which set below shows the integers in order from least to greatest?

- A. $\{-2, -3, 2, 3\}$ B. $\{2, 3, -3, -2\}$
 C. $\{-3, -2, 2, 3\}$ D. $\{3, 2, -2, -3\}$

80. David's teacher asked him to solve the problem shown below.

$$(-125 + 175) + (-125 + 165) + 110$$

David's answer of 190 is incorrect. What is the correct answer?

81. What is the sum of $-15 + 18$?
82. What is the product of $3(-16)$?
83. Which expression has a value of 18?
- A. $[(3 \times 4) - (2 \times 5)] + 1$
 B. $3 + 4 + [(2 \times 5) + 1]$
 C. $3 + [(4 \times 2) + (5 \times 1)]$
 D. $3 \times [(4 \times 2) - 5] - 1$
84. Which expression has a value of -3 ?

85. What is the solution to the equation?

$$\frac{12(-3) + 4}{4} =$$

86. What is the solution to the equation?

$$\frac{12(-3) - 4}{-2} =$$

87. What is the solution to the equation?

$$\frac{-8(-4) + (-6)}{2} =$$

88. What is the value of the expression below?

$$14 - 4[2 + 3(8 - 5)]$$

89. $4 + (-3) =$

90. $12 \div -3 =$

91. What is the value of the expression shown below?.

$$-6 + (-9)$$

92. What is the value of the expression below?

$$(-4) + 6$$

93. What is the value of the expression below?

$$-13 - (-9)$$

94. What is the value of the expression below?

$$-5 + |9 - 11|$$

95. Solve:

$$56 - (-42)$$

96. The temperature on Monday was -23°F . The temperature on Tuesday was 18° higher. What was the temperature on Tuesday?

97. The low temperatures in January of five Alaskan cities are shown in the table below.

January Low Temperatures

City	Temperature ($^{\circ}\text{F}$)
Barrow	-20
Dillingham	9
Galena	-16
Kuparuk	-24
Skagway	18

What is the difference between the warmest and coldest temperatures?

98. The temperature in Flagstaff was -5°C when Sandy went to bed. The temperature dropped 20°C during the night. Which integer represents the change in temperature?

99. The Hornet's soccer team scored 5 goals in their last match. The other team, the Panthers, won by 3 goals. Which integer represents the number of goals that the Panthers won by?

100. The temperature on a mountain peak was 7 degrees Fahrenheit ($^{\circ}\text{F}$) at 6:00 p.m. By 8:00 p.m., the temperature had dropped to 0°F . If the temperature continued to drop at about the same rate, which is the *best* estimate of the temperature at 11:00 p.m.?

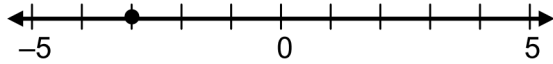
- A. -20°F B. -14°F
C. -10°F D. -9°F

101. One morning, the temperature was 5° below zero. By noon, the temperature rose 20° Fahrenheit (F) and then dropped 8°F by evening. What was the evening temperature?

102. In one game, the running back for Grambling State ran for a total of 53 yards. The quarterback ran for a total of -8 yards. Which expression could be used to find out how many more yards the running back ran for than the quarterback?

- A. $53 - (-8)$ B. $53 + (-8)$
C. $-8 - 53$ D. $-8 + 53$

103. What is the absolute value of the coordinate of the point shown on the number line?



104. What is the value of the expression below?

$$5 - |4| + |8 - 10|$$

105. What is the value of the expression below?

$$|4| + |-9|$$

106. What is the value of the expression below?

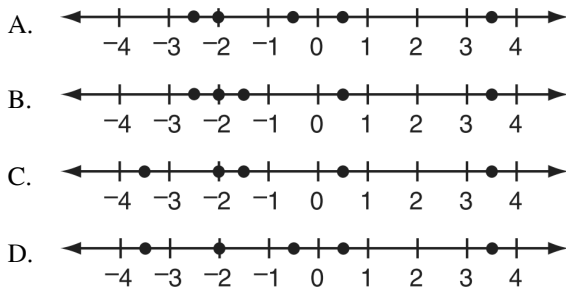
$$|-16| - |8|$$

107. What is the value of the expression below?

$$|15| + |-10|$$

108. Which number line below shows the set of numbers graphed correctly?

$$\left\{3.5, -\frac{7}{2}, \frac{1}{2}, -2, -1\frac{1}{2}\right\}$$



109. Which list contains only integers?

- A. .8, 1.4, 7.2, 19.3, 27.8
 B. -3, -2, 0, 8, 17
 C. -2, -1.8, 8, 15, 101
 D. $\frac{1}{2}$, $\frac{4}{5}$, $\frac{8}{9}$, $\frac{11}{15}$, $\frac{23}{40}$

110. Which expression has the *smallest* value?

- A. $|-19|$ B. $|-34|$ C. $|11|$ D. $|47|$

111. Travis found the area of a circle using the formula $A = \pi r^2$. What type of number is π ?

112. Which number is a natural number?

- A. -3 B. $\frac{1}{2}$ C. 4 D. $\sqrt{6}$

113. Which of the following is equivalent to $7(5n + 1)$?

- A. $36n$ B. $42n$
 C. $35n + 1$ D. $35n + 7$

114. Which of the following is equivalent to the expression?

$$2(3x - 2y) + 4y$$

- A. $6x$ B. $6x + 8y$
 C. $6x - 2y$ D. $2xy + 4y$

115. Which expression is equivalent to $3x - 3y$?

- A. $3xy$ B. $3(x - y)$
 C. $3x - y$ D. $x - 3y$

116. Use the expression below to answer the question.

$$20 + 8y - 9y - 21$$

Which expression is equivalent?

- A. $2(10 + 4y - 7y - 19)$
 B. $2(10 + 4y) - 3(3y - 7)$
 C. $4(5 + 2y - 5y - 17)$
 D. $4(5 + 2y) - 3(3y + 7)$

117. Rita snowboarded x feet. Nathan snowboarded 438 feet less than twice as far as Rita. The expression below represents the distance Nathan snowboarded.

$$2x - 438$$

Which is an equivalent expression?

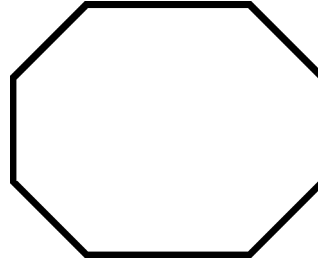
- A. $438 + 2x$ B. $438 - 2x$
 C. $-438 + 2x$ D. $-438 - 2x$
118. Choose the correct solution for the equation:
 $5x + 8 = 43$
119. Which value for x makes the number sentence true?
 $3x + 10 = 19$
120. Matthew cleaned the garage in 2.5 hours. He was paid x dollars per hour. He then spent \$3 and had \$12 remaining. The following equation represents this situation.

$$2.5x - 3 = 12$$

How much was he paid per hour?

121. A go-cart has a maximum weight limit of 240 pounds. Which inequality correctly represents this weight limit, w ?
122. Solve each of the unknowns in the equations below:
 $\frac{8}{r} = 96$
123. Solve this equation, show your work, and choose the best answer: $5x + 8 = 18$
124. Which of the following is the solution to the equation below?
 $2x + 3 = 13$
- A. $x = 5$ B. $x = 8$
 C. $x = 20$ D. $x = 32$

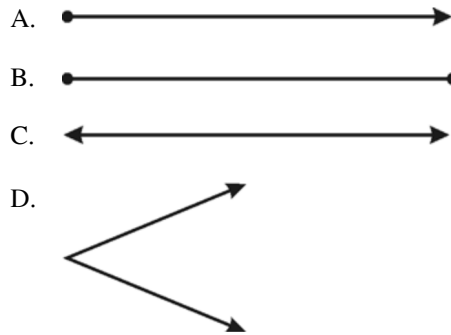
125.



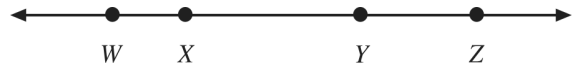
How many angles does this shape have?

126. A portion of a line bounded by two points is defined as:

127. Which of these represents a line segment?



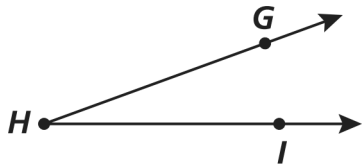
128. Four distinct points are shown on the number line below.



How many distinct line segments have two of these points as endpoints?

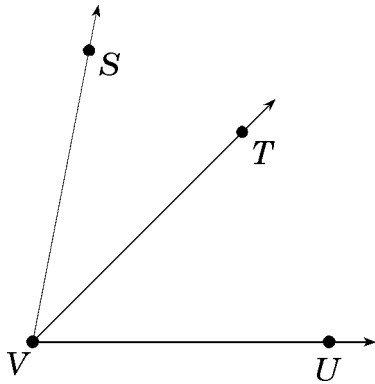
129. Point B lies between points A and C , and all three points lie on line AC . Which of the following is *not* true?
- A. Point B lies on segment AC .
 B. Point C lies on ray AB .
 C. Point A lies on ray BC .
 D. Point C lies on line AB .

130. Mrs. Gunther drew angle GHI on the board, as shown below.



What term describes the sides of angle GHI ?

131. Which of the following *best* describes what $\angle SVT$ and $\angle TVU$ have in common?

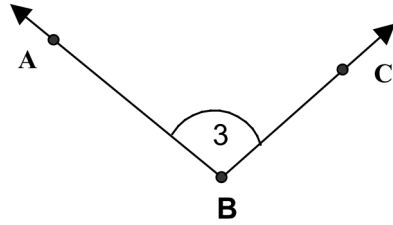


- A. \vec{VT} B. \overline{VT} C. \overleftrightarrow{VT} D. V, T

132. Which figure shows ray EG ?

- A.
- B.
- C.
- D.

133. Which of the following is not a proper way to name the angle shown below?



- A. $\angle ACB$ B. $\angle CBA$
 C. $\angle B$ D. $\angle 3$

134. Which figure represents a line?

- A.
- B.
- C.
- D.

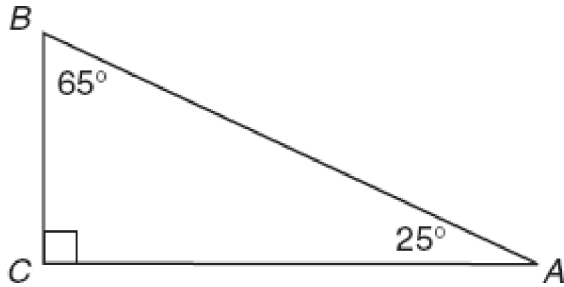
135. Tran drew the first letter of his name.



Which geometric shapes make this letter?

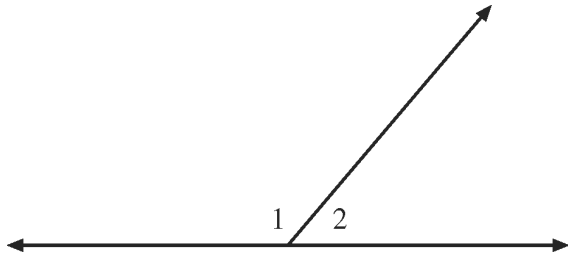
- A. 3 points B. 3 rays
 C. 2 lines D. 2 line segments

136. If the sum of the measures of two angles is 90° , then the angles are complementary. In triangle ABC , $m\angle A = 25^\circ$, $m\angle B = 65^\circ$, $m\angle C = 90^\circ$.



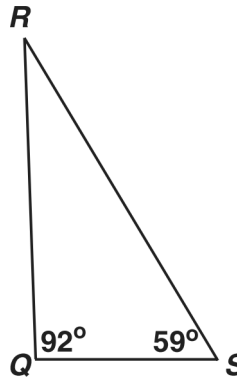
Which valid conclusion follows directly from the previous statements?

- A. $\angle C$ is a complementary angle.
 - B. $\angle B$ and $\angle C$ are complementary angles.
 - C. $\angle A$ and $\angle C$ are complementary angles.
 - D. $\angle A$ and $\angle B$ are complementary angles.
137. Which is a true statement about angles 1 and 2 shown below?

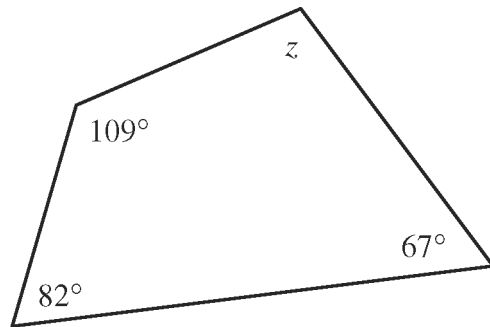


- A. $\angle 1$ is complementary to $\angle 2$.
 - B. $\angle 1$ is supplementary to $\angle 2$.
 - C. Both angles are obtuse.
 - D. Both angles are acute.
138. The measure of an angle is 75° . What is the measure of its complementary angle?
139. Two angles of a triangle add up to 65° . What is the measure of the third angle?

140. What is the measure of angle R ?

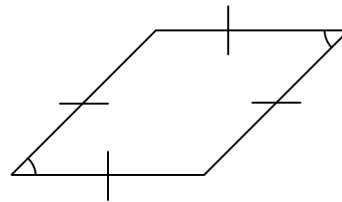


- 141.



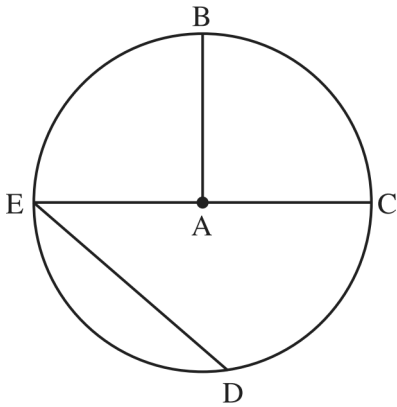
What is the measure of angle z in the figure above?

142. Which of the following terms could *not* be used to describe the polygon below?



- A. quadrilateral
 - B. square
 - C. parallelogram
 - D. rhombus
143. Which of the following is always true?
- A. A rectangle is a square.
 - B. A rhombus is a rectangle.
 - C. A parallelogram is a rhombus.
 - D. A rectangle is a parallelogram.

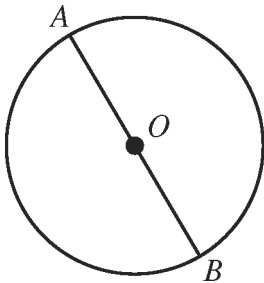
144. Hallie drew the figure below.



Point A is the center of the circle. Which term describes \overline{EC} ?

- A. circumference
- B. diameter
- C. radius
- D. semicircle

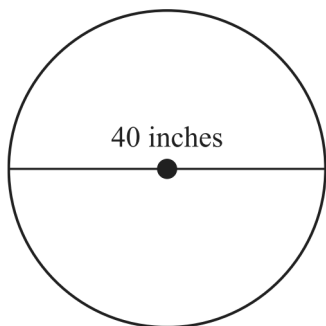
145. Look at the circle with center O .



The line segment AB appears to be

146. The figure below is a drawing of a circular window in a building.

Circular Window

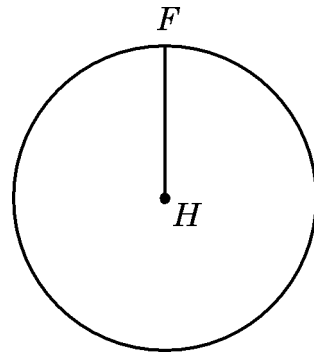


How long is the radius in inches?

147. The radius of a circle is 14 inches. What is the diameter of the circle?

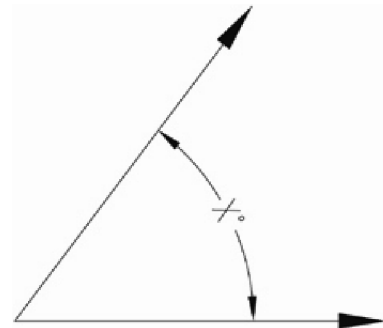
148. A disk in the shape of a circle has a diameter of 64 millimeters. What is the radius of the disk?

149. Diane is making a sundial.

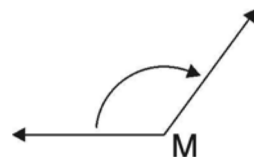


If radius FH is 7 cm, what is the length of the longest chord in circle H ?

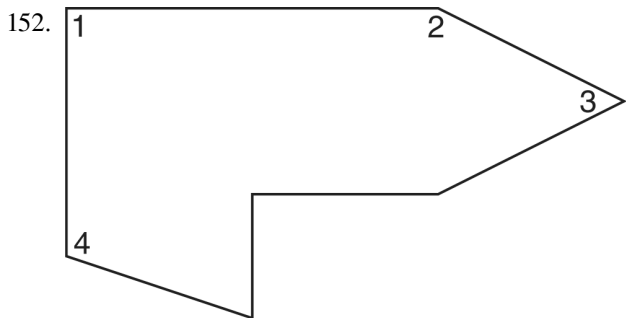
150. Estimate the measure of this angle to the nearest whole number degree.



151. Use the angle below to answer the question that follows.



What kind of angle is angle M ?

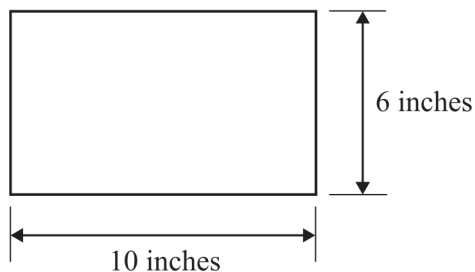


In the picture, which numbered angle measures less than a right angle?

- A. 1 B. 2 C. 3 D. 4

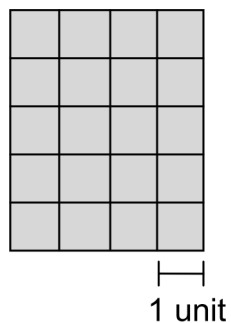
153. Blake made the picture frame below.

Blake's Picture Frame



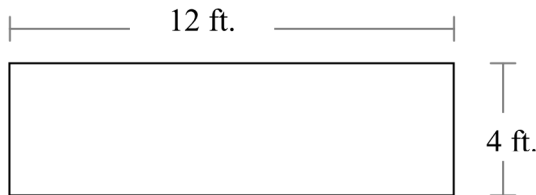
Blake glued string that went once around the outside edge of the frame. What length of string did he use?

154. Look at the figure.



What is the perimeter?

155. Mr. Toye is putting a fence completely around the garden shown below.

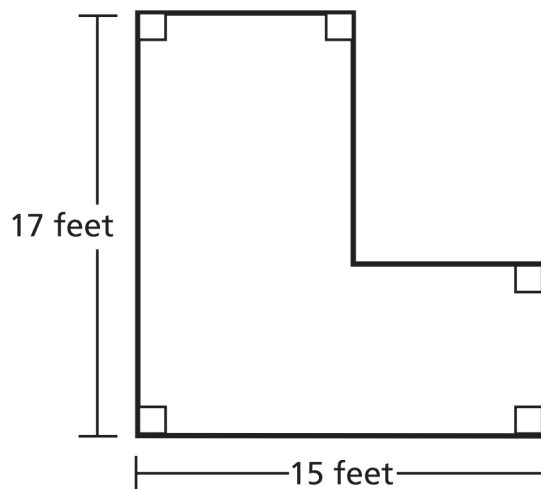


What is the least amount of fencing needed to go around the garden one time?

156. Jasmine is playing basketball. The rectangular basketball court is 84 feet long and 50 feet wide. What is the perimeter of the basketball court?

157. Sal is building a fence around the perimeter of his yard for his dog. His yard is the shape of a rectangle. It is 5 yards long and 7 yards wide. What is the perimeter of Sal's fence?

158. Look at the figure below.



What is the perimeter, in feet, of the figure?

159. What is the area of a 3 cm by 6 cm rectangle?

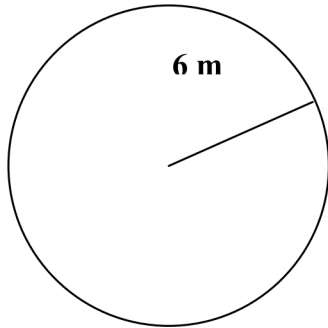
160. Tammy wants to decorate the outside of a circular mirror with a ribbon. The radius of the mirror is 12 inches. Which expression represents the circumference of the mirror in inches?

- A. 6π B. 12π C. 24π D. 144π

161. What is the circumference of a circle with a radius of 11 cm?

162. Given circle P below: Determine the circumference (C) of circle P using the formula $C = 2\pi r$

Let $\pi = 3.14$



163. Mandy made a circular flower garden with a diameter of 7 feet. She wants to put a fence around the outside of the garden. About how much fence does Mandy need to buy? (Use 3.14 for π .)

164. Mr. Logan made this frequency table to organize his students' test scores.

TEST SCORES

Score	Frequency
90–100	16
80–89	9
70–79	2
60–69	2

Mr. Logan wants to add these test scores to his frequency table.

95 65 80 75 100 65

Which frequency table displays all of Mr. Logan's test score data?

A. **TEST SCORES**

Score	Frequency
90–100	19
80–89	11
70–79	4
60–69	2

B. **TEST SCORES**

Score	Frequency
90–100	17
80–89	10
70–79	3
60–69	3

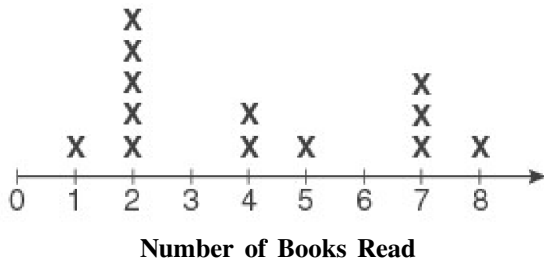
C. **TEST SCORES**

Score	Frequency
90–100	18
80–89	10
70–79	3
60–69	4

D. **TEST SCORES**

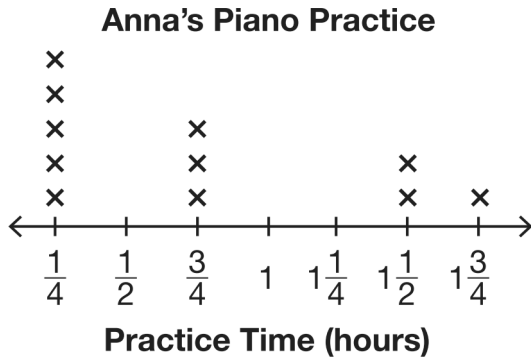
Score	Frequency
90–100	18
80–89	9
70–79	3
60–69	2

165. The line plot shows the number of books each student in Mary's class read over the summer.



What was the *greatest* number of books read by any student?

166. The amount of time, in hours, that Anna practiced the piano each day for 11 days is shown on the line plot below.



How many hours in total did Anna practice the piano over the 11 days?

167. The table below shows how many people at a picnic chose different meals.

Picnic Meal Choices

Meal	Number of People
hamburger	24
fish	10
salad	13
hot dog	18

Which was the second most popular meal choice?

168. The table shows the game system that eighty 8th graders chose to be their favorite:

	XBox	Play Station	Wii	Total
Boys	21	14	5	40
Girls	6	14	20	40
Total	27	28	25	80

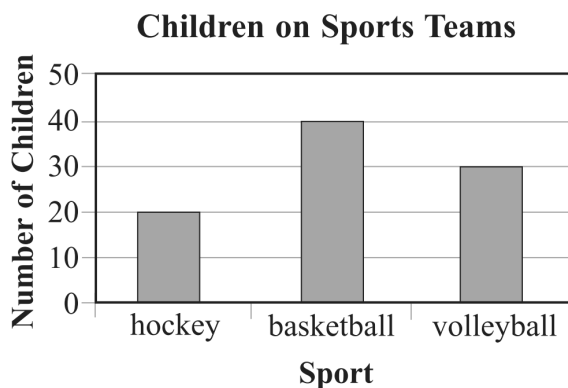
Of the eighty 8th graders surveyed, what percentage is girls who prefer Wii?

169. The following frequency table shows the total number of cars sold by a car dealer each month over a period of 5 months.

Cars Sold	
Month	Number of Cars
January	
February	
March	
April	
May	

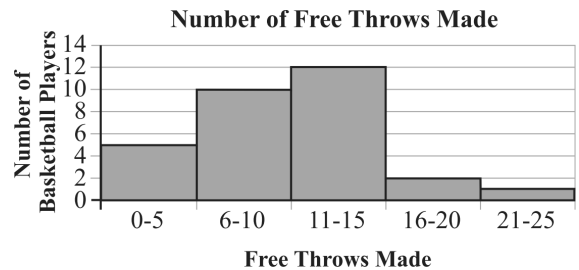
The car dealer wants to compare the total number of cars sold during the month of February to the total number of cars sold during the months of March and May. Which is a true statement?

- A. The total number of cars sold during the month of February was less than the total number of cars sold during the month of May.
- B. The total number of cars sold during the month of February was less than the total number of cars sold during the month of March.
- C. The total number of cars sold during the month of February was greater than the total number of cars sold during the month of May.
- D. The total number of cars sold during the month of February was greater than the total number of cars sold during the month of March.
170. The bar graph below shows how many children played on sports teams.



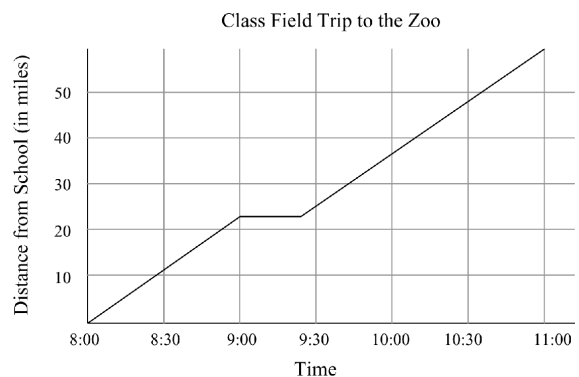
Each child played on one sports team only. How many *more* children played on a basketball team than on a volleyball team?

171. A group of 30 basketball players each attempted 25 free throws. The number of successful attempts is shown in the histogram below.



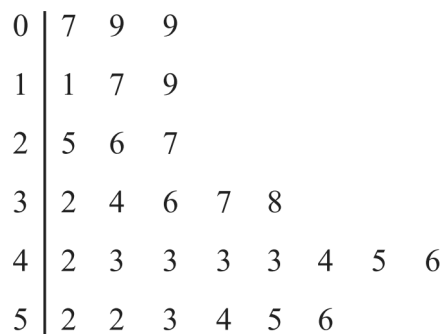
How many basketball players made between 0 to 10 free throws?

172. The bus taking Mr. Scott's class on a field trip had a flat tire on the way to the zoo.



Based on the graph, approximately when did the bus tire go flat?

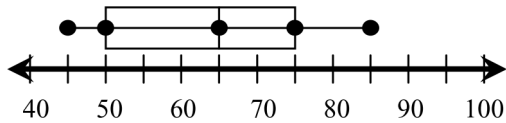
173. The stem-and-leaf plot below shows the high temperatures for 1 month.



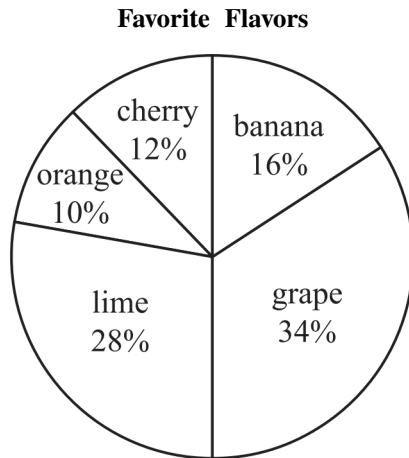
Key	
1	2 = 12

What does the third line of the data represent?

174. Which number is *closest* to the median of the data set represented by the box-and-whisker plot below?



175. The circle graph below shows favorite flavors of jellybeans based on a random survey of 50 people.



How many more people chose grape than cherry as their favorite flavor?

176. The percent scores for 5 tests are listed below.

45 62 76 78 99

Which statement about the data is most reasonable?

- A. the mean is close to 50
- B. the mean is close to 54
- C. the mean is close to 70
- D. the mean is close to 80

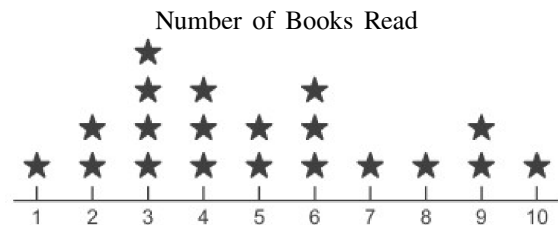
177. The table below shows approximate flight times between Petersburg and other cities.

Flight Times From Petersburg

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

What is the mean flight time?

178. The line plot shows the number of books read by the students in Marco's class last summer.



What was the mean (average) number of books read?

179. Sina's goal is to exercise a mean of 45 minutes per day for one week. For the first 6 days of the week, she exercised 35, 40, 37, 42, 45, and 50 minutes.

What is the number of minutes Sina must exercise on the 7th day of the week to reach her goal exactly?

180. The Jones family has five children. The ages of the children are listed below.

9, 5, 14, 5, 7

What is the median age of the children?

181. Look at the data set.

50, 16, 18, 23, 34, 35, 45, 44

What is the median of the data set?

182. The table below shows the scores 14 students received on a math test.

MATH SCORES

Score	Tally
100	
95	
90	
85	
80	

What is the median score?

183. The table below shows the shoe sizes of the students in a dance class and the number of students who had each shoe size.

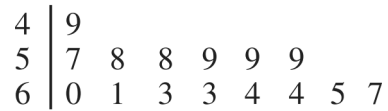
Dance Class Shoe Sizes

Shoe Size	Number of Students
$5\frac{1}{2}$	1
6	2
$6\frac{1}{2}$	1
7	1
$7\frac{1}{2}$	2
8	1
$8\frac{1}{2}$	3

What is the mode of the shoe sizes of these students?

184. Coach Chin recorded the heights of the students in his sixth-grade gym class on the stem-and-leaf plot below.

Height (in inches)



KEY
6 2 = 62

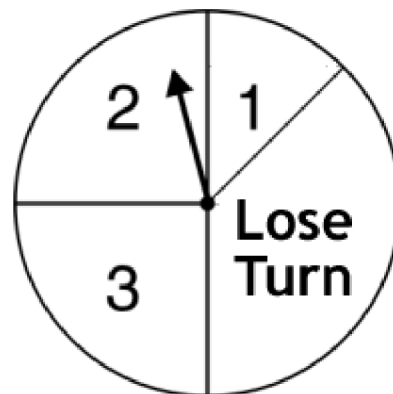
Which of the following is the most common height in Coach Chin's class?

- A. 3 inches B. 9 inches
 C. 59 inches D. 60 inches
185. The list below shows the number of points Martha scored in each of the nine basketball games she played.

11, 6, 15, 3, 9, 8, 10, 8, 6

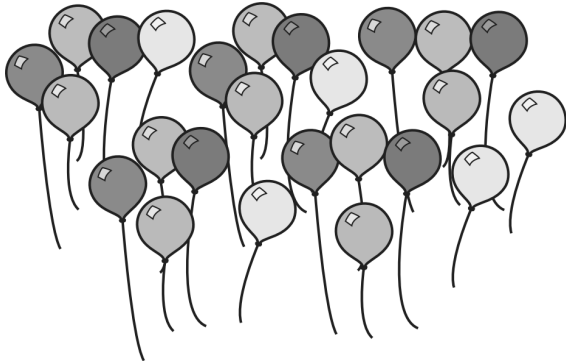
What is the range of the number of points Martha scored?

186. Use the spinner below to answer the question that follows.



If you spin this spinner once, what will you most likely spin?

187. Each person at Yi Kun's party will choose one of the balloons pictured below. There is a concert ticket hidden inside one of the balloons.



Karl was the first one to choose a balloon. Which of the following best describes the chances that he will choose the balloon with the ticket inside?

- A. impossible B. unlikely
C. likely D. certain
188. Mr. Fletcher has a box containing bags of different types of chips. The number of bags and types of chips are shown in the table below.

Bags of Chips

Type of Chips	Number of Bags
plain	3
corn	8
nacho	5
cheddar	4

He will randomly give one bag of chips to each of his 20 students. Nelson is one of the students in Mr. Fletcher's class. Which statement about the likelihood of Nelson receiving different types of chips is true?

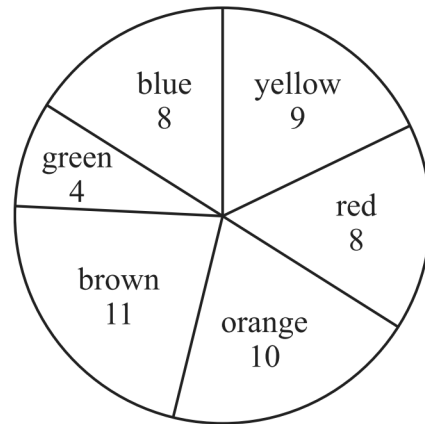
- A. Nelson is less likely to receive either plain or nacho chips than cheddar chips.
B. Nelson is twice as likely to receive cheddar chips as he is to receive corn chips.
C. Nelson is equally as likely to receive corn chips as he is to receive either plain or nacho chips.
D. Nelson is more likely to receive nacho chips than plain chips and less likely to receive nacho chips than cheddar chips.

189. Royce has a bag with 8 red marbles, 4 blue marbles, 5 green marbles, and 9 yellow marbles all the same size. If he pulls out 1 marble without looking, which color is he most likely to choose?

190. Steve is a member of the baseball team. He averages 2 hits for every 5 times at bat. Steve might get a hit his next time at bat. Which of these methods could *not* be used to simulate this situation?
- A. Flip a fair coin once. Let heads represent a hit and let tails represent not getting a hit.
B. Use a random number generator. Let 1 and 5 represent a hit and let 2, 3, and 4 represent not getting a hit.
C. Spin a spinner with 10 equally-sized sections. Let 4 sections represent getting a hit and let 6 sections represent not getting a hit.
D. Draw a marble from a bag that contains 8 red and 12 blue marbles. Let a red marble represent getting a hit and let a blue marble represent not getting a hit.

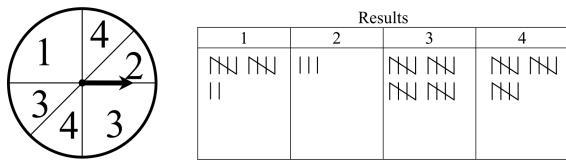
191. The circle graph below shows the number of each colored candy in a bag.

Candies In A Bag



Martin picks a candy out of the bag, records the color, and returns the candy to the bag. He does this 20 times. How many times should Martin expect to pick an orange candy?

192. Danny spun the arrow on the spinner below 50 times and recorded the results in the table, as shown.



If the arrow is spun again, on which number will it *most likely* land?

193. Joan tossed a coin 20 times. Which table *most likely* shows the results from Joan's coin tosses?

A. **Coin-Toss Results**

Heads	Tails
11	9

B. **Coin-Toss Results**

Heads	Tails
14	6

C. **Coin-Toss Results**

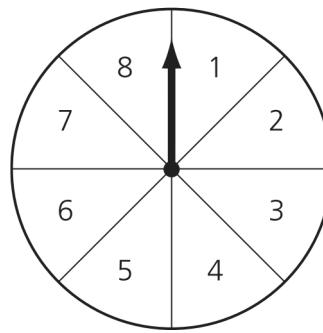
Heads	Tails
6	14

D. **Coin-Toss Results**

Heads	Tails
17	3

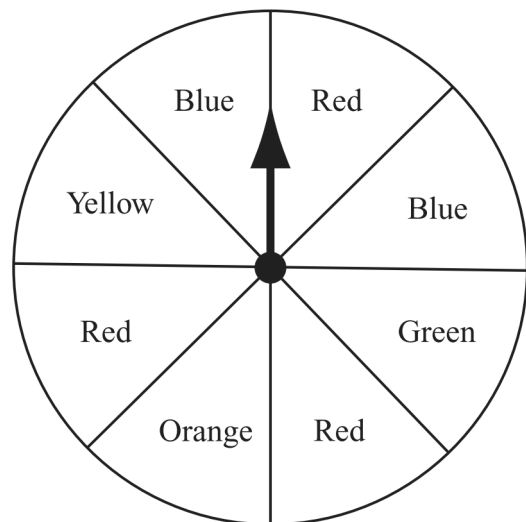
194. The spinner shown below is used in a game.

GAME SPINNER



Esther spins the spinner 8 times and gets an even number 5 times. Which statement correctly compares the experimental and theoretical probability of getting an even number?

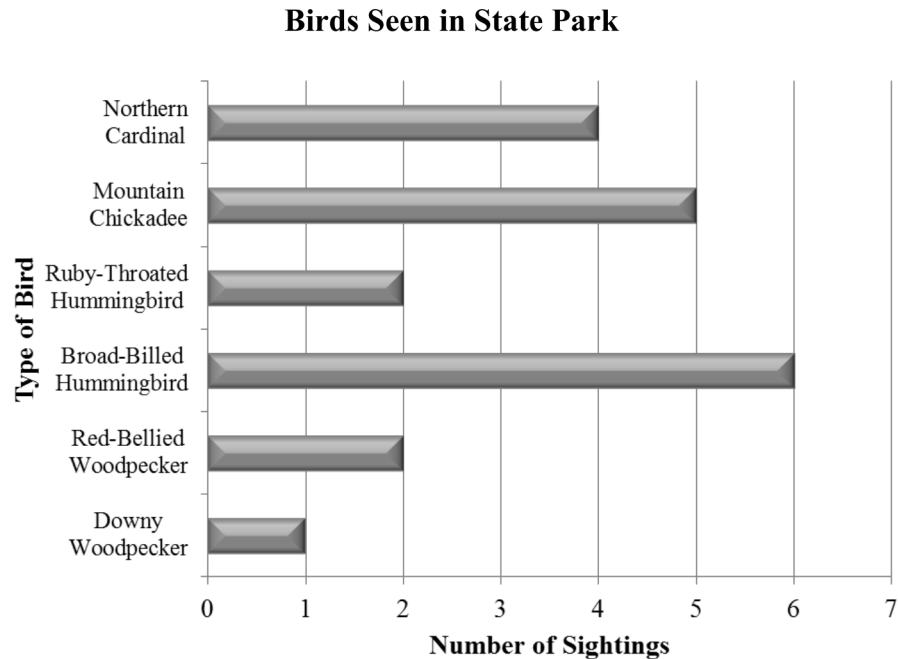
- A. The experimental probability is the same as the theoretical probability.
- B. The experimental probability is greater than the theoretical probability by $\frac{1}{8}$.
- C. The experimental probability is less than the theoretical probability by $\frac{1}{8}$.
- D. The experimental probability is greater than the theoretical probability by $\frac{1}{2}$.
195. The spinner below is used in a game. All the sections of the spinner are the same size.



What is the probability that the arrow will land on a section labeled Red the first time it is spun?

196. A number cube is rolled once. Find the probability of rolling a number that is more than four.

197. Ranger Goya is recording the numbers of sightings of different types of birds he sees in the state park in the graph below.



Based on these results, what is the probability that the next type of bird Ranger Goya sees is a type of hummingbird?

198. Scott will toss one coin 20 times. Which of these sentences below will always be true?

- A. The coin will land on heads or tails.
- B. The coin is certain to land on heads all 20 times.
- C. The coin is certain to land on tails all 20 times.
- D. The coin will land on heads exactly once.

199. Jonah is ordering a T-shirt. Jonah can choose among 4 different colors and 3 different logos. How many possible combinations of 1 color and 1 logo can Jonah choose from?

200. Beth chooses from the following to decorate a room.

- 4 choices of paint colors (blue, green, pink, white)
- 2 choices of borders (flowers, cats)
- 3 sets of curtains (white, pink, blue)

Beth will randomly choose 1 paint color, 1 border, and 1 set of curtains. What is the probability that Beth will pick blue paint, a flower border, and white curtains?

summer packet for digits 5/27/2020

- | | |
|---|--|
| <p>1.
 Answer: $\frac{4}{141}$
 Points: 1</p> <p>2.
 Answer: 4 : 9
 Points: 1</p> <p>3.
 Answer: C
 Objective: CC 6.RP.1
 Points: 1</p> <p>4.
 Answer: 1 : 5
 Points: 1</p> <p>5.
 Answer: D
 Objective: MA 6.P.7
 Points: 1</p> <p>6.
 Answer: \$3.79/lb
 Objective: M3.3.6
 Points: 1</p> <p>7.
 Answer: B
 Points: 1</p> <p>8.
 Answer: 230
 Objective: CC 7.RP.2b
 Points: 1</p> <p>9.
 Answer: C
 Objective: CC 7.RP.1
 Points: 1</p> <p>10.
 Answer: 96 minutes
 Objective: M3.3.6
 Points: 1</p> <p>11.
 Answer: 18 buckets
 Points: 1</p> <p>12.
 Answer: $\frac{1}{3}$
 Objective: M3.3.6
 Points: 1</p> | <p>13.
 Answer: $2\frac{2}{3}$ cups
 Points: 1</p> <p>14.
 Answer: $1\frac{1}{2}$ cups
 Objective: CC 7.RP.3
 Points: 1</p> <p>15.
 Answer: Sparkle
 Points: 1</p> <p>16.
 Answer: Can C
 Objective: MA 8.N.3
 Points: 1</p> <p>17.
 Answer: B
 Objective: 10204
 Points: 1</p> <p>18.
 Answer: 25
 Objective: 7.MR.2.1
 Points: 1</p> <p>19.
 Answer: B
 Objective: 6.NS.1.3
 Points: 1</p> <p>20.
 Answer: D
 Objective: CC 7.RP.2c
 Points: 1</p> <p>21.
 Answer: C
 Objective: CC 7.RP.2
 Points: 1</p> <p>22.
 Answer: \$10.80
 Points: 1</p> <p>23.
 Answer: 20 cups
 Points: 1</p> <p>24.
 Answer: 40 feet
 Points: 1</p> |
|---|--|

25.
Answer: 5
Objective: MA 5.P.4
Points: 1
26.
Answer: 24 pounds
Objective: MA 6.P.1
Points: 1
27.
Answer: C
Points: 1
28.
Answer: $1\frac{1}{2}$ feet per minute
Objective: 6.AF.2.2
Points: 1
29.
Answer: 12.5
Points: 1
30.
Answer: 0.75
Objective: 7.AF.3.4
Points: 1
31.
Answer: -5 feet per second
Objective: CC 7.NS.3
Points: 1
32.
Answer: 7 miles per hour
Objective: CC 6.RP.3b
Points: 1
33.
Answer: 65 students
Objective: III.A
Points: 1
34.
Answer: 7 min per week
Points: 1
35.
Answer: $2\frac{1}{4}$ feet per year
Points: 1
36.
Answer: A
Points: 1
37.
Answer: A
Objective: CC 8.SP.3
Points: 1
38.
Answer: D
Objective: MA 6.N.5
Points: 1
39.
Answer: A
Points: 1
40.
Answer: between 25% and 50%
Points: 1
41.
Answer: $33\frac{1}{3}\%$
Points: 1
42.
Answer: 75%
Objective: LA N-2-E
Points: 1
43.
Answer: B
Objective: MA 10.N.4
Points: 1
44.
Answer: Brittany
Objective: II.B
Points: 1
45.
Answer: 20%
Objective: 4.O1
Points: 1
46.
Answer: 80%
Points: 1
47.
Answer: 62.5%
Objective: M1.3.5
Points: 1
48.
Answer: 87.5%
Objective: M3.3.5
Points: 1
49.
Answer: 50%
Objective: 7.NS.1.3
Points: 1
50.
Answer: 18
Objective: 6.NS.1.4
Points: 1
51.
Answer: 144
Points: 1

52.
Answer: 625
Points: 1

53.
Answer: \$127.41
Objective: M3.3.3
Points: 1

54.
Answer: \$34
Points: 1

55.
Answer: \$64
Objective: 7.NS.1.7
Points: 1

56.
Answer: \$117.30
Objective: 6.NS.1.4
Points: 1

57.
Answer: 300
Objective: M3.3.3
Points: 1

58.
Answer: 50
Objective: MA 8.N.10
Points: 1

59.
Answer: \$312.50
Objective: 1-2-3
Points: 1

60.
Answer:
Objective: CC 7.RP.3
Points: 1

61.
Answer: \$4,500,000
Points: 1

62.
Answer: 30 gallons
Objective: CC 6.RP.3C
Points: 1

63.
Answer: less than 50%
Points: 1

64.
Answer: \$311
Points: 1

65.
Answer: 20%
Objective: 7.NS.1.6
Points: 1

66.
Answer: 15%
Objective: 7.NS.1.6
Points: 1

67.
Answer: 15%
Points: 1

68.
Answer: 12%
Points: 1

69.
Answer: $\frac{27}{100}$
Objective: M1.3.4
Points: 1

70.
Answer: 4%
Objective: M1.3.4
Points: 1

71.
Answer: 89%
Objective: M1.3.4
Points: 1

72.
Answer: 45%
Objective: M3.3.5
Points: 1

73.
Answer: 370%
Objective: M3.3.5
Points: 1

74.
Answer: 80%
Points: 1

75.
Answer: C
Points: 1

76.
Answer:

	Percent	Fraction	Decimal
1.	210%	$2\frac{1}{10}$	2.1
2.	37.5%	$\frac{3}{8}$.375
3.	7.5%	$\frac{3}{40}$.075
4.	.8%	$\frac{1}{125}$.008
5.	40%	$\frac{2}{5}$.4

Objective: M3.3.5
Points: 1

77.
 Answer: Row 1: $2\frac{1}{10}$, 2.1; Row 2: 37.5%, .375;
 Row 3: 7.5%, $\frac{3}{40}$; Row 4: $\frac{1}{125}$, .008;
 Row 5: $66\frac{2}{3}\%$, $\overline{.66}$
 Objective: M3.3.5
 Points: 1
78.
 Answer: D
 Objective: MA 6.N.6
 Points: 1
79.
 Answer: C
 Objective: 1-1-7
 Points: 1
80.
 Answer: 200
 Points: 1
81.
 Answer: 3
 Objective: M3.3.3
 Points: 1
82.
 Answer: -48
 Objective: M3.3.3
 Points: 1
83.
 Answer: B
 Objective: 1-2-8
 Points: 1
84.
 Answer: $-7 - (-4)$
 Objective: 1-2-1
 Points: 1
85.
 Answer: -8
 Objective: 1-2-1
 Points: 1
86.
 Answer: 20
 Objective: 1-2-1
 Points: 1
87.
 Answer: 13
 Objective: 1-2-1
 Points: 1
88.
 Answer: -30
 Objective: 1-2-7
 Points: 1
89.
 Answer: 1
 Objective: 6.NS.2.3
 Points: 1
90.
 Answer: -4
 Objective: 6.NS.2.3
 Points: 1
91.
 Answer: -15
 Objective: MA 6.N.15
 Points: 1
92.
 Answer: 2
 Objective: MA 6.N.15
 Points: 1
93.
 Answer: -4
 Objective: CC 7.NS.1
 Points: 1
94.
 Answer: -3
 Objective: CC 7.NS.3
 Points: 1
95.
 Answer: 98
 Objective: PA A.3.2.2
 Points: 1
96.
 Answer: -5°F
 Points: 1
97.
 Answer: 42°F
 Points: 1
98.
 Answer: -25°C
 Objective: 1-1-6
 Points: 1
99.
 Answer: +3
 Objective: 1-1-6
 Points: 1
100.
 Answer: C
 Objective: 7.MR.2.1
 Points: 1
101.
 Answer: 7° above zero
 Objective: CC 6.NS.5
 Points: 1

102.
Answer: A
Objective: LA N.3
Points: 1

103.
Answer: 3
Objective: 1-1-5
Points: 1

104.
Answer: 3
Points: 1

105.
Answer: 13
Objective: MA 7.N.4
Points: 1

106.
Answer: 8
Objective: MA 7.N.4
Points: 1

107.
Answer: 25
Objective: MA 8.N.6
Points: 1

108.
Answer: C
Objective: 1.1.A
Points: 1

109.
Answer: B
Objective: M1.4.1
Points: 1

110.
Answer: C
Objective: 7.NS.2.5
Points: 1

111.
Answer: irrational
Points: 1

112.
Answer: C
Objective: LA N-1-H
Points: 1

113.
Answer: D
Points: 1

114.
Answer: A
Objective: 60501
Points: 1

115.
Answer: B
Objective: 7.AF.1.3
Points: 1

116.
Answer: D
Objective: CC 7.EE.1
Points: 1

117.
Answer: C
Points: 1

118.
Answer: $x = 7$
Objective: M4.3.5
Points: 1

119.
Answer: 3
Objective: 3-3-1
Points: 1

120.
Answer: \$6.00
Points: 1

121.
Answer: $w \leq 240$ pounds
Objective: 3-3-1
Points: 1

122.
Answer: $\frac{1}{12}$
Objective: M4.2.5
Points: 1

123.
Answer: $x = 2$
Objective: M4.3.5
Points: 1

124.
Answer: A
Objective: 3-3-9
Points: 1

125.
Answer: 8
Points: 1

126.
Answer: Segment
Objective: CC G.CO.1
Points: 1

127.
Answer: B
Objective: LA G.5
Points: 1

128.
Answer: 6
Objective: MA 8.D.4
Points: 1

129.
Answer: C
Objective: G4B6
Points: 1

130.
Answer: Rays
Objective: MS 3b2
Points: 1

131.
Answer: A
Objective: 2.01
Points: 1

132.
Answer: D
Points: 1

133.
Answer: A
Points: 1

134.
Answer: C
Objective: OH 5.GS.D
Points: 1

135.
Answer: D
Objective: PA C.1.2.1
Points: 1

136.
Answer: D
Objective: 5-2-1
Points: 1

137.
Answer: B
Objective: 6.MG.2.1
Points: 1

138.
Answer: 15°
Points: 1

139.
Answer: 115°
Objective: 4-1-2
Points: 1

140.
Answer: 29°
Objective: 5.MG.2.2
Points: 1

141.
Answer: 102°
Objective: 5.MG.2.2
Points: 1

142.
Answer: B
Objective: 4-1-1
Points: 1

143.
Answer: D
Points: 1

144.
Answer: B
Points: 1

145.
Answer: a diameter.
Objective: 4.MG.3.2
Points: 1

146.
Answer: 20
Points: 1

147.
Answer:
Objective: MA 6.M.5
Points: 1

148.
Answer: 32 millimeters
Objective: CC 6.G.1
Points: 1

149.
Answer: 14 cm
Objective: 2.04
Points: 1

150.
Answer: 80°
Objective: M2.3.1
Points: 1

151.
Answer: obtuse
Objective: LA G.2
Points: 1

152.
Answer: C
Objective: 3.MG.2.4
Points: 1

153.
Answer: 32 inches
Points: 1

154.
Answer: 18 units
Objective: 4-4-5
Points: 1

155.		169.	
Answer:	32 ft.	Answer:	D
Objective:	4-4-5	Objective:	MS 5c3
Points:	1	Points:	1
156.		170.	
Answer:	268 feet	Answer:	10
Points:	1	Points:	1
157.		171.	
Answer:	24 yards	Answer:	15
Objective:	4-4-5	Points:	1
Points:	1	172.	
158.		Answer:	9:00 – 9:30
Answer:	64 feet	Objective:	2-1-4
Points:	1	Points:	1
159.		173.	
Answer:		Answer:	The high temperatures of 25° , 26° , and 27° occurred this month.
Points:	1	Points:	1
160.		174.	
Answer:	C	Answer:	65
Points:	1	Objective:	2-1-5
161.		Points:	1
Answer:	22π cm	175.	
Points:	1	Answer:	11 people
162.		Points:	1
Answer:	37.69 m	176.	
Objective:	M5.3.4	Answer:	C
Points:	1	Objective:	1-3-2
163.		Points:	1
Answer:	22 feet	177.	
Points:	1	Answer:	86 minutes
164.		Points:	1
Answer:	C	178.	
Objective:	4.A.1.b	Answer:	5
Points:	1	Points:	1
165.		179.	
Answer:	8	Answer:	66 minutes
Points:	1	Objective:	MA 7.D.2
166.		Points:	1
Answer:	$8\frac{1}{4}$ hours	180.	
Objective:	CC 4.MD.4	Answer:	7
Points:	1	Points:	1
167.		181.	
Answer:	hot dog	Answer:	34.5
Points:	1	Objective:	2-1-3
168.		Points:	1
Answer:	25%	182.	
Objective:	CC 8.SP.4	Answer:	95
Points:	1	Points:	1

183.
Answer: $8\frac{1}{2}$
Objective: MA 10.D.1
Points: 1

184.
Answer: C
Objective: MA 6.D.2
Points: 1

185.
Answer: 12
Points: 1

186.
Answer: Lose Turn
Objective: LA D.5
Points: 1

187.
Answer: B
Objective: MA 4.D.6
Points: 1

188.
Answer: C
Objective: CC 7.SP.5
Points: 1

189.
Answer: yellow
Objective: 4.PS.2.2
Points: 1

190.
Answer: A
Objective: 3.1.1
Points: 1

191.
Answer: 4
Points: 1

192.
Answer: 3
Objective: 2-2-6
Points: 1

193.
Answer: A
Points: 1

194.
Answer: B
Points: 1

195.
Answer: $\frac{3}{8}$
Objective: MA 4.D.4
Points: 1

196.
Answer: $\frac{1}{3}$
Objective: M6.3.5
Points: 1

197.
Answer: $\frac{2}{5}$
Objective: CC 7.SP.6
Points: 1

198.
Answer: A
Points: 1

199.
Answer: 12
Points: 1

200.
Answer: $\frac{1}{24}$
Points: 1