



Name: _____

Grade 6

Grade 6 FSA Warm-Ups

Day 1

1. A florist has 40 tulips, 32 roses, 60 daises, and 50 petunias. **Draw a line** from each comparison to match it to the correct ratio.

- | | |
|-----------------------|-----------------|
| A. tulips to roses | $\frac{32}{40}$ |
| B. daises to petunias | $\frac{40}{60}$ |
| C. roses to tulips | $\frac{40}{32}$ |
| D. roses to petunias | $\frac{32}{50}$ |
| E. tulips to daises | $\frac{60}{50}$ |

2. There are 250 students in a school auditorium. Complete the table below.

Grade	Percent of All Students	Number of Students
Fifth	24	
Sixth		95
Seventh	20	
Eighth		45

3. Javier rides his bicycle at a rate of 15 miles per hour. **Fill in the blanks** to complete true statements.

There are _____ feet in 15 miles.

In 1 hour, there are _____ seconds.

Javier's speed is equivalent to _____ feet per second.

Day 2

4. The table below shows the type of music and number of songs that Karl has on his MP3 player.

Type of Music	Number of Songs
Rock	25
Country	10
Hip-Hop	40
Classical	15
Alternative	10

- Is the statement true? **Circle Yes or No.**

The ratio of rock songs to hip-hop songs is 25 to 40.	Yes	No
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The ratio of country songs to alternative songs is 1 to 10.	Yes	No
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The ratio of classical songs to rock songs is 25 to 15.	Yes	No
---	-----	----

The ratio of rock songs to total songs is 25 to 100.	Yes	No
--	-----	----

5. Select measurements that are equivalent. **Select all that apply.**

- A) 15 kilometers = 1,500,000 centimeters
- B) 28 feet = 9 yards
- C) 320 seconds = 5 minutes 20 seconds
- D) 2.5 miles = 13, 200 feet
- E) 60 inches = 4 feet

6. A video game system that normally sells for \$249 is on sale for 15% off. Which expression can be used to find the amount of the discount? **Select all that apply.**

- | | |
|----------------------|--------------------------------|
| A) $0.15(2.49)$ | D) $\frac{3}{20} \times 249$ |
| B) 0.15×249 | E) $\frac{15}{100} \times 249$ |
| C) 15×249 | |

Grade 6 FSA Warm-Ups

Day 3

7. Tell whether each rate is a unit rate. *Select all that apply.*

- A) 8 dogs for every 5 cats
- B) \$1.25 per song
- C) $\frac{1}{3}$ lap per minute
- D) $\frac{60 \text{ students}}{2 \text{ classes}}$
- E) $\frac{15 \text{ players}}{1 \text{ team}}$
- F) 4 cups per 2 batches

8. Trey can drive his car 130 miles on 4 gallons of gas. *Circle True or False for each statement.*

A. At this rate, Trey could drive 195 miles on 6 gallons of gas.	True	False
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B. At this rate, Trey would need 5 gallons of gas to drive 165 miles.	True	False
---	------	-------

C. At this rate, if gas costs \$3.45 per gallon, it will cost Trey \$27.60 to drive 260 miles.	True	False
--	------	-------

9. If 4 gallons of milk cost \$16.76, how much would 7 gallons of milk cost?

- A. \$4.19
- B. \$29.33
- C. \$67.04
- D. \$117.32

Day 4

10. Reggie, Alvin, and Jose are member of a relay running team. Reggie finished his leg of the race 2.45 seconds faster than Alvin and 3.81 seconds slower than Jose. If Reggie's time for his leg of the race was 57.12 seconds, what was the total time for the team? Show your work.

11. Tell whether each situation can be represented by a negative number, 0, or a positive number.

	Negative Number	0	Positive Number
Situation 1: A football team's first play resulted in a loss of 15 yards.			
Situation 2: A store marks up the price of a calculator \$5.20.			
Situation 3: Nina withdrew \$50 from her bank account.			
Situation 4: A porpoise is swimming at sea level.			
Situation 5: Kylie scored 2 goals in yesterday's soccer game.			

Grade 6 FSA Warm-Ups

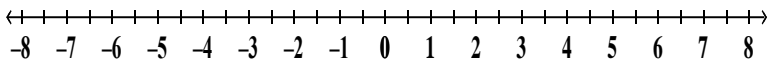
Day 5

In questions 12-16, select whether each statement is True or False.

- A) True B) False

12. The ordered pair (2, -5.2) is located in Quadrant IV.
13. Quadrant II contains ordered pairs of the form (positive number, negative number)
14. The point (-6, 0) is located on the y-axis.
15. The origin is located in Quadrant I.
16. To plot points in Quadrant III, move left and down from the origin.
17. Several tourists are participating in different activities at an ocean resort. The table below shows each person's position relative to sea level. Plot points on the number line to represent each person's elevation.

Person's Activity	Elevation (with respect to sea level)
Kayaking	0.5 foot above
Swimming	sea level
Kite Surfing	8 feet above
Swimming	1.5 feet below
Snorkeling	7 feet below



Elevation (with respect to sea level)

Day 6

18. Which of the following values will result in a quotient that is less than 1 when it is divided by $\frac{1}{2}$?

Select all that apply.

- A) $2\frac{1}{4}$ E) $1\frac{2}{3}$
 B) $\frac{1}{2}$ F) $\frac{1}{5}$
 C) $\frac{3}{10}$ G) $\frac{7}{15}$
 D) $\frac{5}{9}$

For questions 19-22, match each rational number to the pair of integers that it lies between on a number line.

- A) between 2 and 3 C) between -3 and -2
 B) between 3 and 4 D) between -4 and -3

19. $-2\frac{5}{6}$
 20. 2.15
 21. $\frac{10}{3}$
 22. -3.01

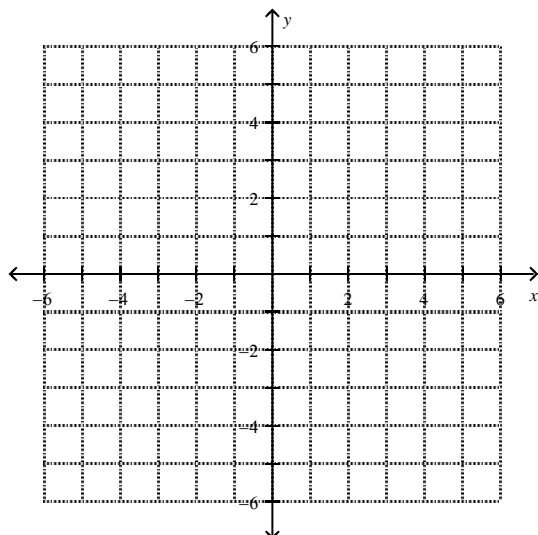
Grade 6 FSA Warm-Ups

Day 7

23. Tyrese is making a map of his neighborhood using a coordinate plane. He plots the following locations:

- His home is at the origin.
- The school is at (4, 5).
- The zoo is at (-3, 2).
- The park is at (-4, -4).
- The grocery store is at (4, -1).

Plot the locations on the coordinate plane. If each unit of the coordinate plane represents 750 feet, what is the distance from the school to the grocery store?



The distance from the school to the grocery store is _____ feet.

24. The table below shows the record low temperatures for five different states. List the states in order from coldest to warmest temperature.

State	Record Low Temperature
Arizona	-40°F
Connecticut	-32°F
Illinois	-36°F
Kentucky	-37°F
Massachusetts	-35°F

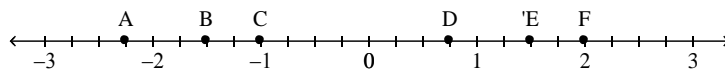
Day 8

25. There are 351 students from Mason Middle School going on a field trip. The students will be riding on buses that hold 52 students each. How many buses will be needed and how many empty seats will there be? Explain your answer.

26. Determine the greatest common factor (GCF) of each pair of numbers.

- A) 24 and 36
- B) 100 and 60
- C) 18 and 27
- D) 64 and 88

27. **Select all** the statements that are true about the number line.



- A) Point *F* has the largest absolute value.
- B) Points *B* and *E* have the same absolute value.
- C) The distance between points *C* and *F* is 3 units.
- D) Point *C* represents the opposite of point *D*.
- E) Point *A* has the smallest absolute value.

28. Are the expressions equivalent? **Select all that apply.**

- A) $3n + 2 - 4n$ and $2 - n$
- B) $5(3x + 2)$ and $15x + 10$
- C) $2(r \times r \times r)$ and $6r$
- D) $-8(2z - 3)$ and $-16z - 3$

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Day 9

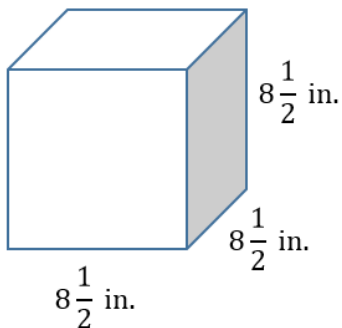
29. Malcolm is downloading a file that is 50.4 Mb. His internet connection has a download speed of 1.2 Mb per second. Let t represent the amount of time in seconds it will take to download the file. Write and solve a multiplication equation to find the time in seconds it will take Malcolm to download the file.

30. The table below shows different powers of 2.

Expression	2^6	2^5	2^4	2^3	2^2	2^1	2^0
Value	64	32	16				

Complete the table by writing the missing values in the appropriate cells.

31. The formula $A = 6s$ can be used to find the surface area of a cube that has side lengths of s units. Use the formulas to find the surface area of the box shown. Show your work.

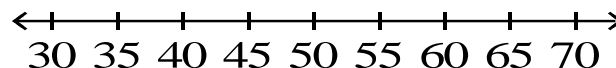


Day 10

32. Write the algebraic expression that represents each phrase:

- A) 20 decreased by a number
- B) the quotient of a number and 20
- C) a number increased by 20
- D) 20 less than a number

33. Ricardo has a \$50 gift card for an electronics store. He also has a coupon good for \$10 off his purchase. Let a represent the amount of merchandise Ricardo can buy from the store using his gift card and coupon. Write and solve an inequality to represent the situation. Then, graph the solution set on the number line.



34. Select the equation with the solution $n = 15$.

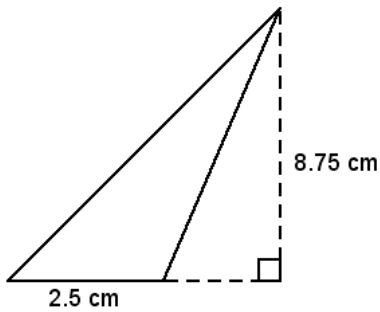
Select all that apply.

- A) $4 + n = 11$
- B) $5n = 70$
- C) $n - 6 = 9$
- D) $n + 8 = 24$
- E) $90 = 6 \times n$

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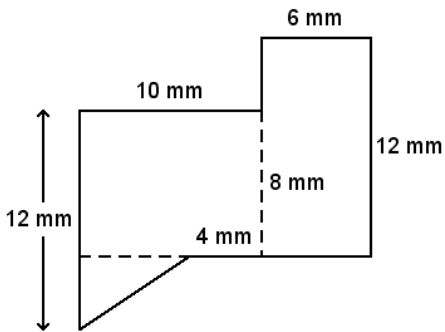
Day 11

35. What is the area of the triangle below?



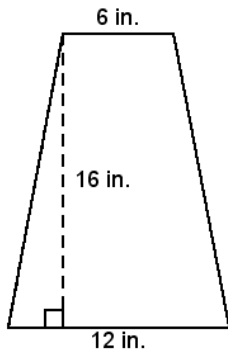
- A) 5.625 cm^2 C) 11.25 cm^2
 B) 10.9375 cm^2 D) 21.875 cm^2

36. What is the area of the triangle in the figure below?



- A) 12 mm^2 C) 36 mm^2
 B) 20 mm^2 D) 60 mm^2

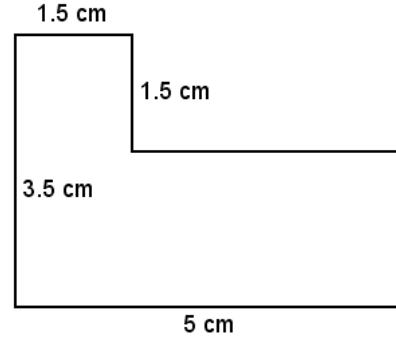
37. What is the area of this shape?



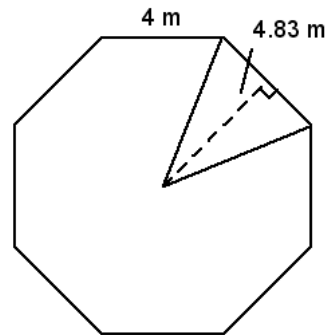
- A) 48 in^2 C) 144 in^2
 B) 96 in^2 D) 288 in^2

Day 12

38. Find the area of the polygon below by dividing it into two rectangles using one vertical line. Show your work.



39. A regular octagon can be divided into isosceles triangles. One triangle formed from this division is shown, where the base is 4 m and the approximate height is 4.83 m.



What is the approximate area of the octagon?
 Show your work.

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Day 13

40. Which statements below are true when $x = 5$?

Select all that apply.

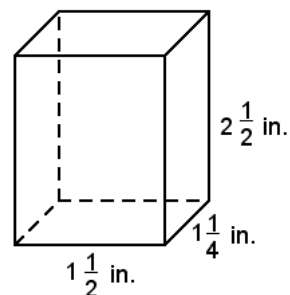
- A) $3 = 2x - 7$
- B) $3 < 2x - 9$
- C) $2 \leq x + 6$
- D) $18 = 6x - 12$
- E) $3 = 2 + x$

41. A brick has a length of $2\frac{2}{5}$ cm, a width of $\frac{4}{5}$ cm, and a height of 1 cm. How many $\frac{1}{5}$ cm cubes can fit along the length of the brick?

- A) 4
- B) 5
- C) 12
- D) 240

Day 14

42. If 300 cubes can fit in the rectangular prism below, what is the edge length of each cube?



- A) $\frac{1}{64}$ in.
- B) $\frac{7}{400}$ in.
- C) $\frac{1}{4}$ in.
- D) $4\frac{11}{16}$ in.

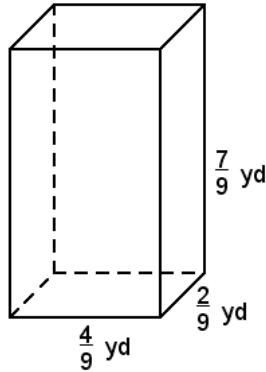
43. Which dimensions describe a rectangular prism with a volume of $\frac{3}{50}$ cubic units? *Select all that apply.*

- A) $\frac{2}{5}$ unit \times $\frac{1}{4}$ unit \times $\frac{3}{5}$ unit
- B) $1\frac{2}{3}$ unit \times $\frac{1}{4}$ unit \times $\frac{5}{9}$ unit
- C) $\frac{6}{7}$ unit \times $\frac{7}{10}$ unit \times $\frac{1}{5}$ unit
- D) $\frac{3}{5}$ unit \times $\frac{3}{10}$ unit \times $\frac{1}{3}$ unit
- E) $\frac{4}{7}$ unit \times $2\frac{5}{8}$ unit \times $\frac{1}{25}$ unit

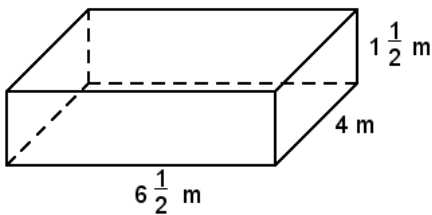
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Day 15

44. Use the formula for volume $V = lwh$ to find the volume of the rectangular prism shown. Show your work.

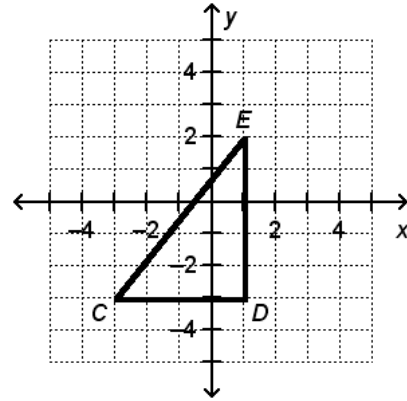


45. How many cubes with side length $\frac{1}{2}$ m would fit inside the rectangular prism shown below? Show your work.



Day 16

46. What is the length of \overline{CD} in the figure?



- | | |
|------------|------------|
| A) 2 units | C) 4 units |
| B) 3 units | D) 5 units |

47. Which name best describes the polygon with vertices $(0, 0)$, $(4, 8)$, $(12, 8)$, and $(16, 0)$?

- | | |
|-------------|--------------|
| A) Triangle | C) Trapezoid |
| B) Square | D) Pentagon |

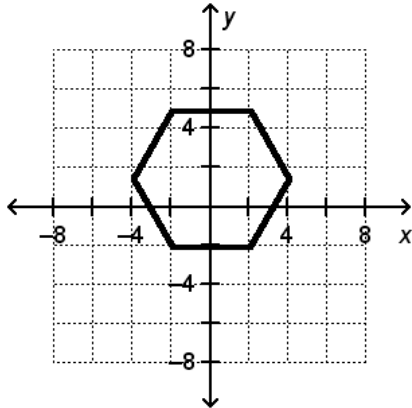
48. A rectangle has one vertex at $(0, 4)$. The rectangle has at least one side with a length of 6 units. Which vertices could represent the other three vertices of the rectangle? **Select all that apply.**

- A) $(0, -2)$, $(-2, -2)$, and $(-2, 4)$
- B) $(3, 4)$, $(3, 1)$, and $(0, 1)$
- C) $(6, 4)$, $(0, 2)$, and $(6, 2)$
- D) $(-6, 4)$, $(0, 5)$, and $(-6, 5)$
- E) $(0, 6)$, $(2, 6)$, and $(2, 4)$

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Day 17

49. The figure below is a regular hexagon. One unit on the graph represents 1 centimeter. What is the perimeter of the hexagon? Explain how you found your answer.



50. A rectangular plot of land is represented on a map by the vertices $(10, 10)$, $(10, 90)$, $(70.5, 90)$, and $(70.5, 10)$, where the x - and y -coordinates are measured in yards. What is the area of the plot of land?

- A) $1,560 \text{ yd}^2$ C) $5,445 \text{ yd}^2$
 B) $4,840 \text{ yd}^2$ D) $6,345 \text{ yd}^2$

51. A line segment has endpoints $(-1, -1)$ and $(-1, 2)$. Could the given vertex form a triangle if connected to the endpoints of the line segment?

- A) $(6, 2)$ Yes No

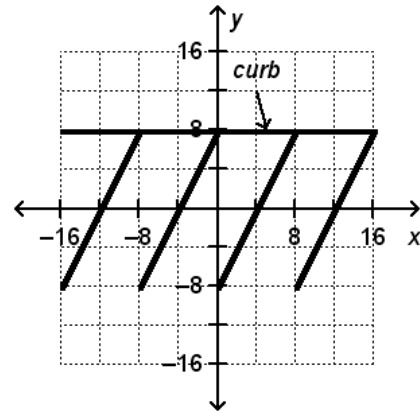
 B) $(-1, 6)$ Yes No

 C) $(-1, 0)$ Yes No

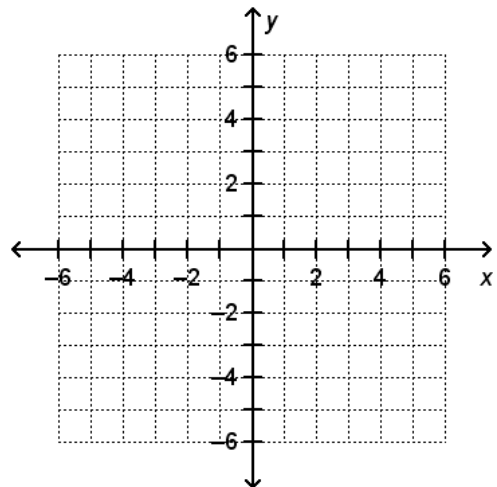
 D) $(-4, 8)$ Yes No

Day 18

52. A town requires that angled parking spaces have a “curb length” of 9 feet. The curb length is the distance from one angled line to the next as measured along the curb. One plan for angled parking spaces is shown below. Do these angled parking spaces meet the town’s requirement? Explain why or why not. Each unit on the graph represents 1 foot.



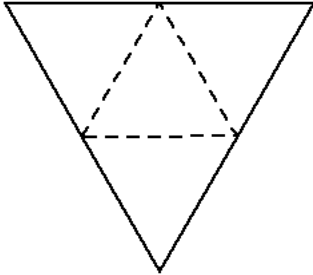
53. Graph the shape that has vertices $A(-3, -2)$, $B(-1, 2)$, $C(4, 2)$, and $D(2, -2)$. What kind of shape is it?



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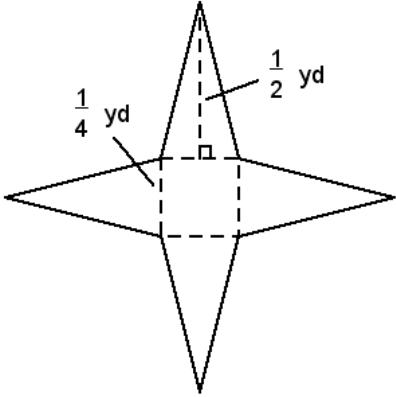
Day 19

54. What three-dimensional figure can be formed by folding the net shown?



- A) Rectangular prism C) Triangular pyramid
 B) Square pyramid D) Triangular prism

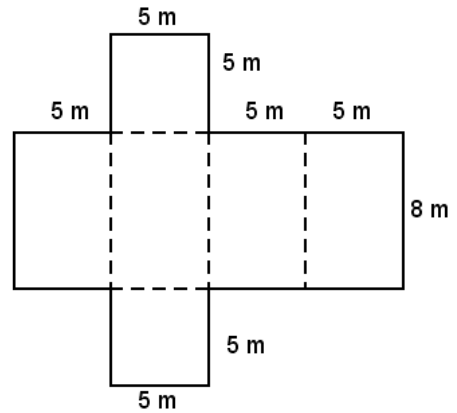
55. The net of a square pyramid is shown. Find the surface area of the pyramid.



- A) $\frac{1}{8} \text{ yd}^2$ C) $\frac{5}{16} \text{ yd}^2$
 B) $\frac{1}{4} \text{ yd}^2$ D) $\frac{9}{16} \text{ yd}^2$

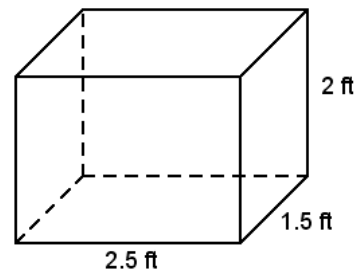
Day 20

56. Which of the following areas correspond to the area of a face of the rectangular prism that can be formed by the net shown? *Select all that apply.*



- A) 25 m^2 D) 80 m^2
 B) 40 m^2 E) 90 m^2
 C) 65 m^2

57. An employee of a store's gift wrapping center is wrapping 8 gifts, each in the same size box. The dimensions of the box are shown below.

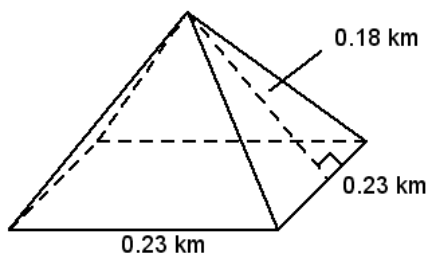


Find the surface area of the box. Show your work.

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Day 21

58. Hector is visiting the pyramids in Egypt. He wants to know the surface area of the Pyramid of Giza. The approximate dimensions are shown below, where all of the triangular faces have the same dimensions. Find the approximate surface area of the pyramid. Show your work.



59. Which of the following questions is statistical?

- A) How many hours did you sleep last night?
- B) How many hours did the students in your class sleep last night?
- C) How many hours did your friend spend reading last night?
- D) How many hours did your teacher spend reading on Saturday?

Day 22

60. What statement best describes the question “How many computer games does Christopher have right now?”
- A) The question is statistical because it does not involve a data set with items that vary.
 - B) This question is statistical because there is variation in the resulting data set.
 - C) This is not a statistical question because it does not involve a data set with items that vary.
 - D) This is not a statistical question because there is variation in the resulting data set.
61. Nancy wants to know more about the music her friends listen to. Which of her questions below is **NOT** a statistical question?
- A) If I make a list of musical styles, how many of my friends like each style?
 - B) How many songs does each of my friends have?
 - C) What is my best friend’s favorite song?
 - D) How many songs does each of my friends buy in one month?
62. Mia plants 20 flowers of different types in her garden. Which of the following questions is **NOT** a statistical question about the flowers?
- A) What was the total cost of the flowers?
 - B) How tall is the shortest flower?
 - C) How many of each type of flower is there?
 - D) How many flowers have 5 petals?

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Day 23

63. Glenn wants to learn more about his classmates. Which of the following are statistical questions that Glenn can ask? **Select all that apply.**

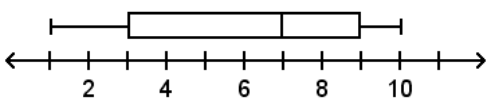
- A) Is Jennifer wearing glasses today?
- B) How tall is Jeremy?
- C) How tall are all of the students?
- D) How many students brought lunch today?
- E) How old are the students?
- F) How many students brought lunch each day over the past month?

64. The test scores for a class are shown. What is the average test score?

79, 80, 92, 92, 81, 100, 88, 98, 71, 100, 91, 90

- A) 71
- B) 88.5
- C) 90.5
- D) 92

65. Find the interquartile range of the data displayed in the box plot shown.



- A) 9
- B) 7
- C) 6
- D) 3

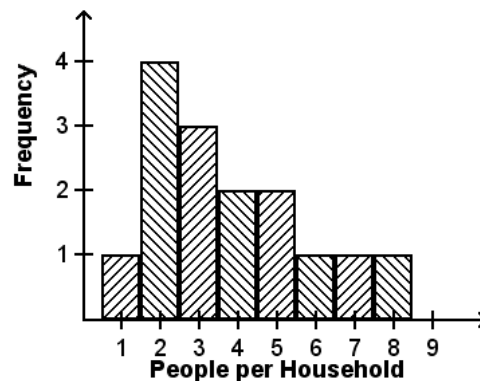
Day 24

66. What is the median of the data set shown?

34, 86, 12, 56, 21, 98, 72, 34, 21, 34, 45, 23, 97, 44

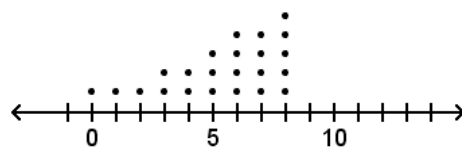
- A) 34
- B) 39
- C) 44
- D) 53

67. The number of people per household for a street with 15 houses is shown. What statement best describes the shape of the distribution of the data set?



- A) Skewed right
- B) Skewed left
- C) Symmetric
- D) Has two peaks

68. Which of the following statements accurately describe the data displayed in the dot plot shown? **Select all that apply.**



- A) The distribution is right skewed.
- B) The distribution is left skewed.
- C) The distribution is symmetric.
- D) The mean is approximately 5.4.
- E) The median is 6.
- F) The mode is 0.

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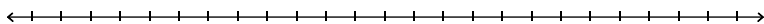
Day 25

Complete two of the three questions...

69. The number of runs Jackie's baseball team scored per game throughout a part of one season is shown below.

3, 7, 8, 9, 2, 4, 5, 1, 0, 7, 2, 4

Construct a box plot from the given data set. Then, describe the shape of the distribution of the data set.



70. The number of hours Linda sleeps each night for two weeks is shown. Find the mean absolute deviation, rounding to the nearest whole number. Explain how this value describes the distribution of the data.

8, 7, 6.5, 8, 9, 10, 7.5, 9.5, 8, 9.5, 10, 7, 8, 7

71. Suzanne and Jason live on different streets. They are collecting data on how many gallons of water per day the residents of their streets use. This data is shown below.

Suzanne's street: 100, 92, 83, 75, 95, 112, 80, 73

Jason's street: 81, 62, 98, 74, 82, 100, 121, 93, 76, 72

On average, do the residents of Suzanne's street or Jason's street use more gallons of water per day?

Day 26

72. The number of touchdowns scored by one football team in each game during a season is shown. What was the mean of the touchdowns the team scored during that season?

2, 4, 1, 0, 4, 3, 2, 4, 5, 1, 0, 3, 6, 4, 2, 3

- A) 2.75 touchdowns C) 3.14 touchdowns
B) 3 touchdowns D) 4 touchdowns

73. Jesse asked how many magazine subscriptions each house on his street had. These numbers are shown. What is the interquartile range of the data set?

1, 0, 2, 3, 4, 1, 0, 0, 4, 1, 2, 2, 1

- A) 0.5 subscription C) 2 subscriptions
B) 1 subscription D) 2.5 subscriptions

74. The number of showtimes for one movie over several days is shown. What is the mean absolute deviation?

9, 6, 8, 9, 7, 4, 3, 5, 2, 4

- A) 2.1 showtimes C) 5.7 showtimes
B) 5.5 showtimes D) 11.4 showtimes

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Day 27

75. Which measures describe the variation in a data set?

- A) Mean
- B) Median
- C) Mode
- D) Mean absolute deviation
- E) Interquartile range
- F) Range

For the data set shown, match each measure of center or measure of variability with its value(s).

2, 6, 8, 3, 4, 6, 2, 6, 8, 5, 6, 2, 7, 8, 4, 3, 2, 7, 3, 4

- | | |
|--------|------------|
| A) 4.8 | D) 2 and 6 |
| B) 3.5 | E) 4.5 |
| C) 1.9 | F) 6 |

76. Mean

77. Median

78. Mode(s)

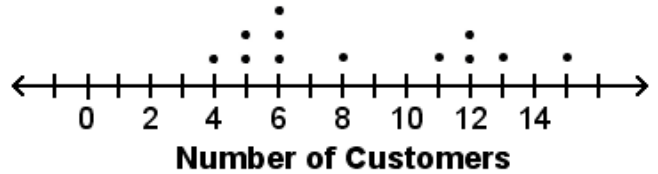
79. Mean absolute deviation

80. Interquartile range

81. Range

Day 28

82. Naomi works at an ice cream shop. She is keeping track of how many customers come into the store every hour for one day. Each dot on the dot plot represents an hour period that Naomi's shop is open.



- a. What is the mean of the data set rounded to the nearest whole number?
- b. What is the median of the data set rounded to the nearest whole number?
- c. What is the mode of the data set?

Grade 6 FSA Warm-Ups

Day 29

83. Landon asks everyone in his class to pick a number between 1 and 10. These numbers are shown.

9, 7, 8, 3, 6, 9, 10, 5, 3, 2, 6, 9, 6, 7

Landon claims the mode is 6 and the range is $10 - 1 = 9$. Is he correct? If he is not correct, find the correct value(s) and show your work.

84. Which values are needed to display a set of data using a box plot? *Select all that apply.*

- A) Mean
- B) Median
- C) Mode
- D) Mean absolute deviation
- E) Lower quartile
- F) Upper quartile
- G) Greatest value
- H) Least value

Day 30

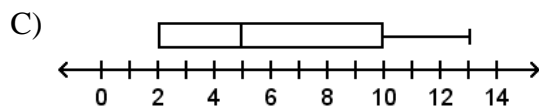
85. The amount of rainfall, in inches, for one town is shown. If this data is displayed using a histogram and equally sized intervals, which intervals can be used?

1.3, 2.5, 0.6, 1.2, 1, 1.3, 0.1, 0.5, 1, 2.6, 1.8, 1.4, 2

- A) 0 to 0.9 inches and 1 to 1.9 inches
- B) 0 to 0.5 inches, 0.6 to 1.5 inches, and 1.6 to 3 inches
- C) 0 to 1 inches, 0.5 to 2 inches, and 1.5 to 3 inches
- D) 0 to 0.9 inches, 1 to 1.9 inches, and 2 to 2.9 inches

86. Which box plot correctly displays the data set shown?

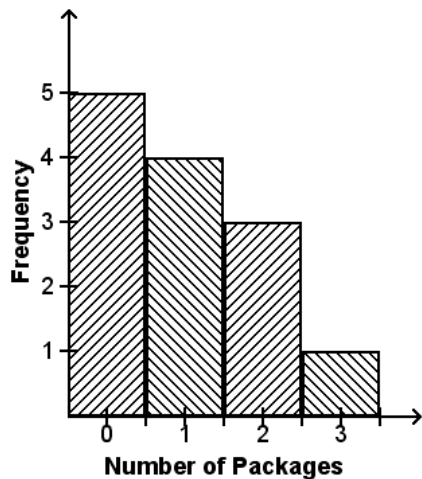
2, 5, 7, 2, 11, 13, 5, 7, 1, 10, 10, 2, 3, 5, 1, 11



Grade 6 FSA Warm-Ups

Day 31

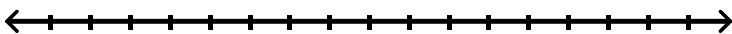
87. What is the median of the data shown in the histogram?



- A) 0 C) 1.5
B) 1 D) 2

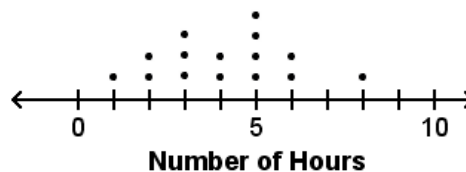
88. Oliver owns a bicycle store. The number of bikes that he sells each month for 18 months is shown. Use a dot plot to display this data. What number of bicycles sold per month was the most frequent? Display the results in the dot plot to explain.

5, 11, 12, 4, 9, 5, 11, 4, 10, 11, 4, 5, 10, 14, 12, 3, 5, 9



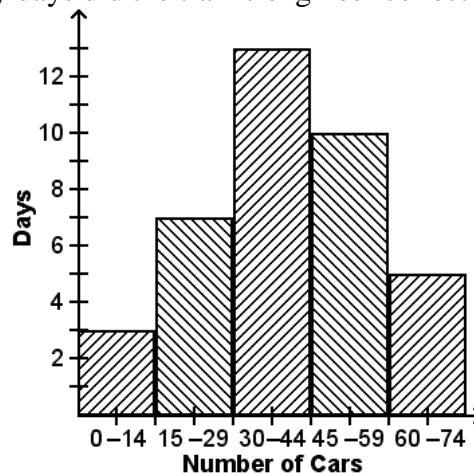
Day 32

89. Colleen is training over the summer for a triathlon. The amount of time that she spends training daily is displayed on the dot plot shown. How many days did Colleen spend training?



- A) 7
B) 8
C) 15
D) The number of days cannot be determined.

90. A traffic engineer is collecting counts of how many cars are on one street during a specific time each day. The results are shown in the histogram. How many days did the traffic engineer collect data?



- A) 13
B) 38
C) 74
D) The number of days cannot be determined.

Grade 6 FSA Warm-Ups

Day 33

91. The dean of a university is looking at the number of students who were enrolled in school during previous years. This data is shown in the table. What do the data values represent?

Year	Students Enrolled
2000	700
2001	841
2002	978
2003	1,200
2004	1,345
2005	1,498
2006	1,612
2007	1,766
2008	2,000

- A) The average number of students enrolled in school each year
- B) The most number of students enrolled in school between the years 2000 and 2008
- C) The number of students enrolled in school each month
- D) The number of students enrolled in school each year

92. Roberto asks “How old are you?” to each of his classmates, and then records the data he receives. Which units can Roberto use to record his data? **Select all that apply.**

- A) Days
- D) Months
- B) Inches
- E) Years
- C) Grams

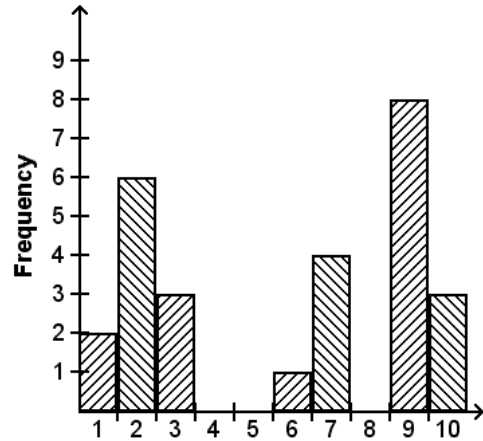
Day 34

93. Three different data sets are displayed on the following graphs. Can the number of observations in each data set be determined from its graph? If so, give the number of observations. If not, explain.

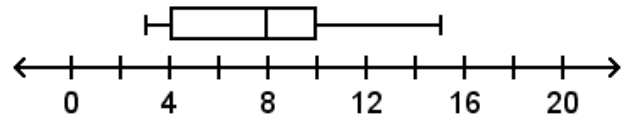
a.



b.



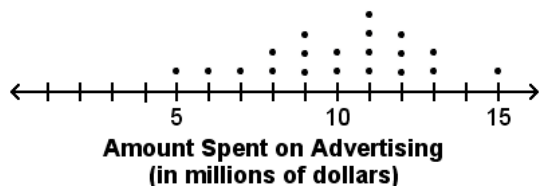
c.



Grade 6 FSA Warm-Ups

Day 35

94. The dot plot shown displays the amount of money, in millions of dollars, that different companies spend on television advertising in one year. Which of the following statements describe the data set? *Select all that apply.*



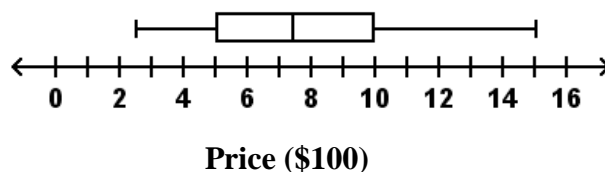
- A) The overall pattern of the distribution is skewed left.
 B) The overall pattern of the distribution is skewed right.
 C) The overall pattern of the distribution is symmetric.
 D) The average amount spent on television advertising is \$10.10.
 E) The average amount spent on television advertising is \$10.1 million.
 F) The median amount spent on television advertising is \$10.50.
 G) The median amount spent on television advertising is \$10.5 million.
95. Lianna planted several plants in her garden. The heights, in centimeters, of these plants after one month are shown. What is the mean height of Lianna's plants? Round your answer to the nearest tenth of a centimeter.

6, 9, 5.1, 12.8, 7.3, 16, 14.8, 9, 11.7, 12.4

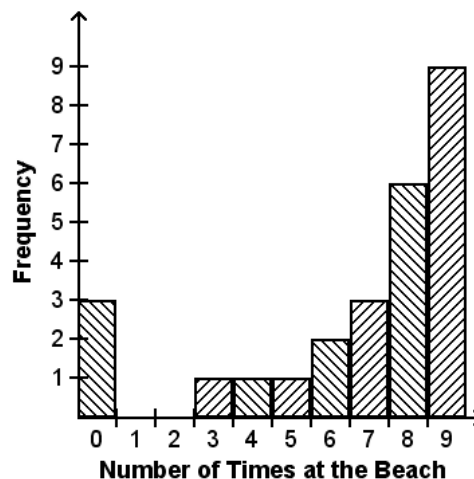
- A) 6.0 centimeters C) 10.4 centimeters
 B) 9.5 centimeters D) 16.0 centimeters

Day 36

96. Gina wants to buy a new computer, so she compares the prices of different computers. Her results are shown in the box plot, in hundreds of dollars. What is the interquartile range of the prices for computers?



- A) \$5.00 C) \$500.00
 B) \$12.50 D) \$1,250.00
97. Fred asked each of his classmates how many times they went to the beach over summer break. He displayed the data using the histogram shown. Which statement best describes the pattern of the distribution?



- A) Skewed left with one deviation from the overall pattern at the value 0
 B) Skewed left with no deviations from the overall pattern
 C) Skewed right with one deviation from the overall pattern at the value 0
 D) Skewed right with no deviations from the overall pattern

Grade 6 FSA Warm-Ups

Day 37

Using the data set shown, match the measures of center and spread with their corresponding values. Round answers to the nearest tenth as needed.

3, 7, 9, 2, 11, 6, 13, 12, 15, 9, 3, 6, 13, 9, 10, 5

- | | |
|--------|---------|
| A) 3.3 | E) 9.0 |
| B) 6.0 | F) 12.0 |
| C) 7.0 | G) 13.0 |
| D) 8.3 | |

98. Mean

99. Median

100. Mode

101. Range

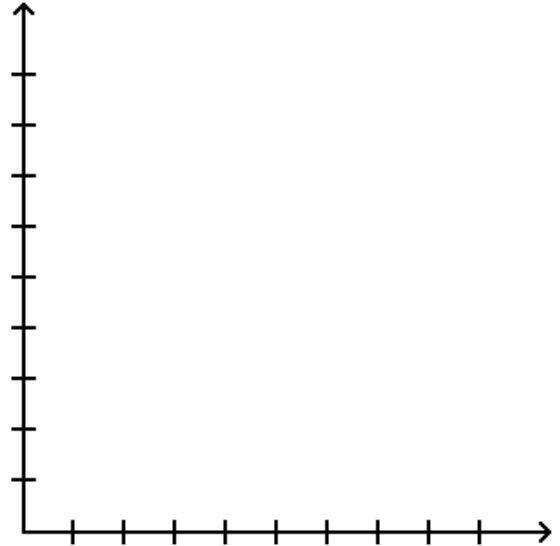
102. Mean absolute deviation

103. Interquartile range

Day 38

104. Shawn is researching the daily fiber intake, in grams, of a group of people. His findings are listed below. Construct a histogram to display the data, using four equally sized intervals. Describe the overall pattern of the distribution

33, 29, 16, 20, 9, 31, 23, 10, 14, 28,
17, 21, 16, 22, 29, 23, 32, 28



Grade 6 FSA Warm-Ups

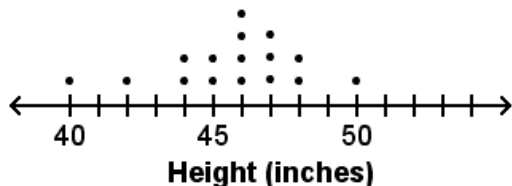
Day 39

105. Does the mean or median best describe a typical value in the data set shown?

19, 18, 19, 18, 19, 19, 1, 19, 18, 19, 18

- A) Mean
- B) Median
- C) Neither describe a value in the data well.
- D) Both describe a value in the data well.

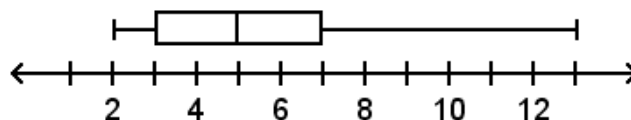
106. The dot plot shown displays the heights, in inches, of the students in one class. Which measure of variability best describes how spread out the heights of the students are?



- A) Mean
- B) Median
- C) Mean absolute deviation
- D) Interquartile range

Day 40

107. What measure best describes the variability of the data set displayed using the box plot shown?



- A) Mean
- B) Median
- C) Mean absolute deviation
- D) Interquartile range

108. Which measures of center and variability best describe the data set shown?

17, 19, 15, 12, 10, 21, 2, 16,
18, 19, 20, 16, 11, 12, 17

- A) Mean
- B) Median
- C) Mode
- D) Mean absolute deviation
- E) Interquartile range
- F) Range