1. Sue and some of her soccer teammates are lining up to have their pictures taken.

   Sue   José   Shanda   Bob

   If they want to line up in order of their numbers from "least to greatest," whose picture should be taken last?

   A   Bob   B   José
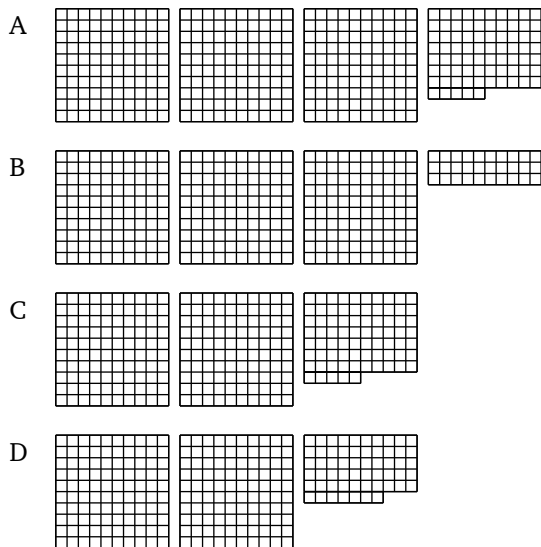
   C   Sue   D   Shanda
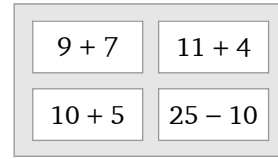
2. What is the shape of the can of soup?
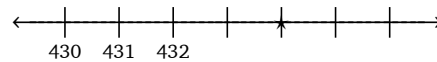
   A   circle   B   sphere

   C   cone   D   cylinder

3. Which group of squares shows 375?

   A

   B

   C

   D

4. Which of the following are other names for 15? Mark each correct choice.

9 + 7	11 + 4
10 + 5	25 − 10

5. Ernest ran between 400 and 500 yards. The dot shows how far Ernest ran. How far did he run?

   430   431   432

6. Match the words and symbols on the right to the descriptions on the left.

_____	subtraction symbol	subtract
_____	symbol for the same quantity	−
_____	find an amount less	difference
_____	the answer to a subtraction problem	=

7. Tonya ate 6 carrots. Malia ate 7 more carrots than Tonya. Which number sentence shows how many carrots Malia ate?
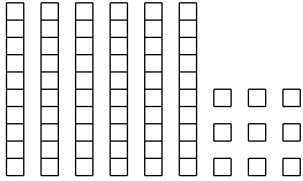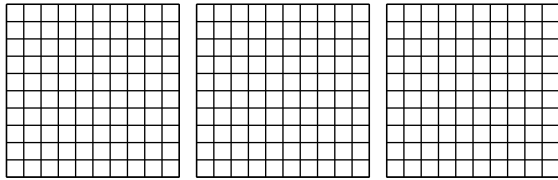
   A $7 - 6 = \square$ B $6 + 7 = \square$

   C $4 + 6 = \square$ D $4 + 7 = \square$

8. Marie sees 6 and 5 .

   How many and does Marie see altogether?

   A   1   B   11   C   12   D   13

9. Look at the base ten blocks.

If 2 ▦ are added to the hundreds group, what number will be shown?

A 569   B 549   C 389   D 169

10. Cecilia was guessing the number of sprinkles on her cupcake.
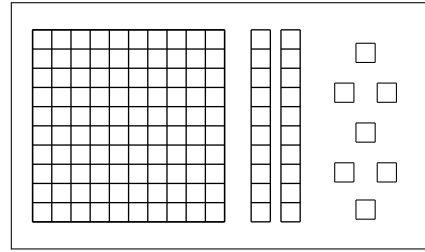
There were more than 29.

There were less than 38.

There was an odd number of sprinkles on her cupcake.
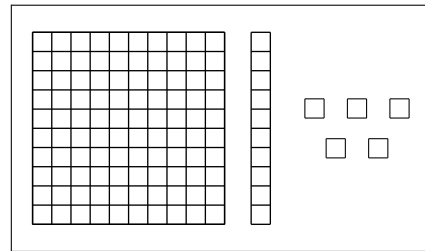
This number is the sum of 17 and 16.

What is the number of sprinkles on Cecilia's cupcake?

A 31   B 32   C 33   D 34

11. What is the sum of the blocks in Box A and Box B?

Box A

Box B

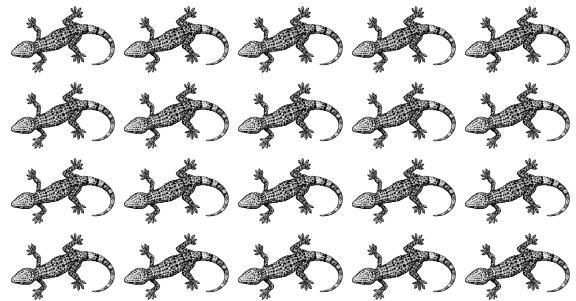A 184   B 132   C 242   D 258

12. Jack has 21 math problems to work for homework. He completed 7 problems, then went out to play a while before supper. How many does he have left to work?

A 29   B 16   C 14   D 3

13. Look at the gekkos.

Which shows how to use addition to find the total number of gekkos?

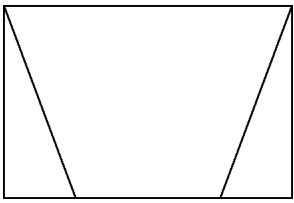A 5 + 5 + 5   B 4 + 4 + 4 + 4

C 4 + 4 + 4 + 4 + 4   D 5 + 5 + 5 + 5 + 5

14. Marcus counted some art supplies and recorded the information in a table.

Art Supply	Picture	Number of Art Supplies
Scissors		5
Marker		8
Paint Jar		7

Construct a picture graph to display the data.
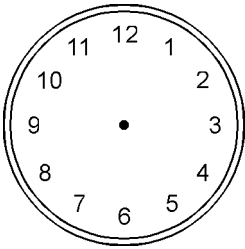
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15. Dominic cut shapes of paper.

He taped them to make a new figure.

What shapes did he use to make the new figure?

A   trapezoid and square

B   trapezoid and triangle

C   pyramid and square

16. Use the clock to help. The hour hand points between the 9 and 10. The minute hand points to the 6. What time is it?

A   6:00   B   6:10   C   9:30   D   10:30

17. The distance from San Francisco to Atlanta is 2,476 miles. How is this number read?

A   twenty-four hundred, seventy-six

B   two thousand, four hundred seventy-six

C   two thousand, forty-seven hundred six

D   two hundred forty-seven, six

18. In which of these situations would it be a good idea to round the numbers? Mark all that apply.

○ the number of times an audience laughs during a movie

○ the amount of water it takes to wash down one elephant

○ the number of free buttons to be handed out for a political candidate

○ the amount of air space between planes trying to land at an airport

OK OAS Elementary School Math Samples

19. Marcia needs to buy new tires for her truck. At Auto Empire, she was told 4 new tires are on sale for $249.00. She was also told this is a great price. What other information is needed to determine how much money she saves with the sale price?

    A How much the tires cost at the regular price.

    B How much the tires would cost if she bought only 2.

    C How much one tire would cost.

    D How long the sale would be going on.

20. According to the Union of Concerned Scientists, there are 110 Russian satellites and 455 U.S. satellites in orbit.

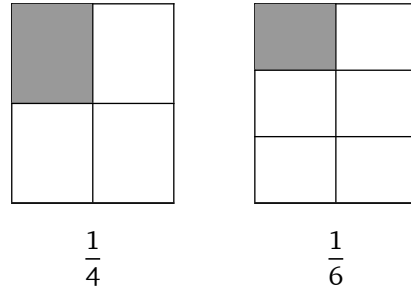   How many more U.S. than Russian satellites are in orbit?

21. Betty has 21 stickers. She gave 3 to each girl in her class. How many girls are in Betty's class?

    A 3   B 5   C 6   D 7

22. In which number sentence is 5 the missing number?

    A $45 \div 9 = \square$ B $56 \div \square = 7$

    C $48 \div 8 = \square$ D $32 \div 4 = \square$

23. Use the fraction models to decide if each sentence is true or false.

    $$\frac{1}{4} \qquad \frac{1}{6}$$

    On each blank, write a T if the sentence is true or an F if the sentence is false.

    ____ $\frac{1}{6} > \frac{1}{4}$ because 6 > 4.

    ____ $\frac{1}{4} = \frac{1}{6}$ because each model has one part shaded.

   ____ $\frac{1}{4} > \frac{1}{6}$ because the shaded area on the left is larger.

24. Boy Scout Troop #9 spent Saturday morning cleaning up Deer Lake. The chart shows four kinds of garbage they pulled out of the lake.

Garbage pulled out of Deer Lake

    What was the total number of soda cans pulled out of the lake?
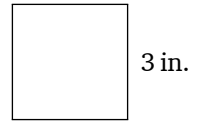
    A 10   B 12   C 16   D 18

25. Draw what step 4 would look like. How many squares will be needed?

Step 1   Step 2   Step 3
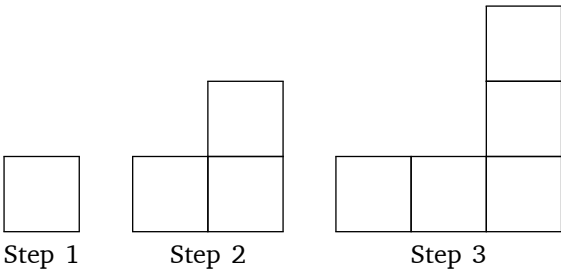
26. A square measures 3 inches on each side. What is the perimeter of the square?
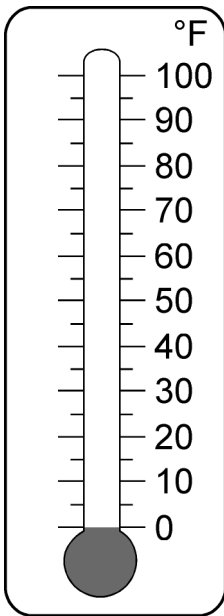
A   12 inches

B   9 inches

C   6 inches

D   3 inches

3 in.
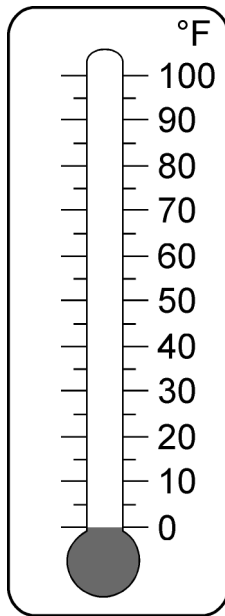
27. What is the perimeter of a rectangle that has a length of 23 feet and a width of 9 feet?

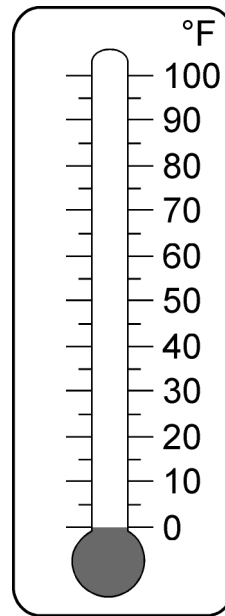A   32 ft   B   46 ft   C   64 ft   D   207 ft

28. Color each thermometer to match the temperature.

10°F   80°F   50°F

Tell your teacher about something you can do outdoors at each temperature.

29. Look at the map below. Use a ruler to measure the line segments in inches.

Map Key
1 inch = 4 miles

Log Cabin

Registration Building

Camp Road

Grocery Store

Camp Fire
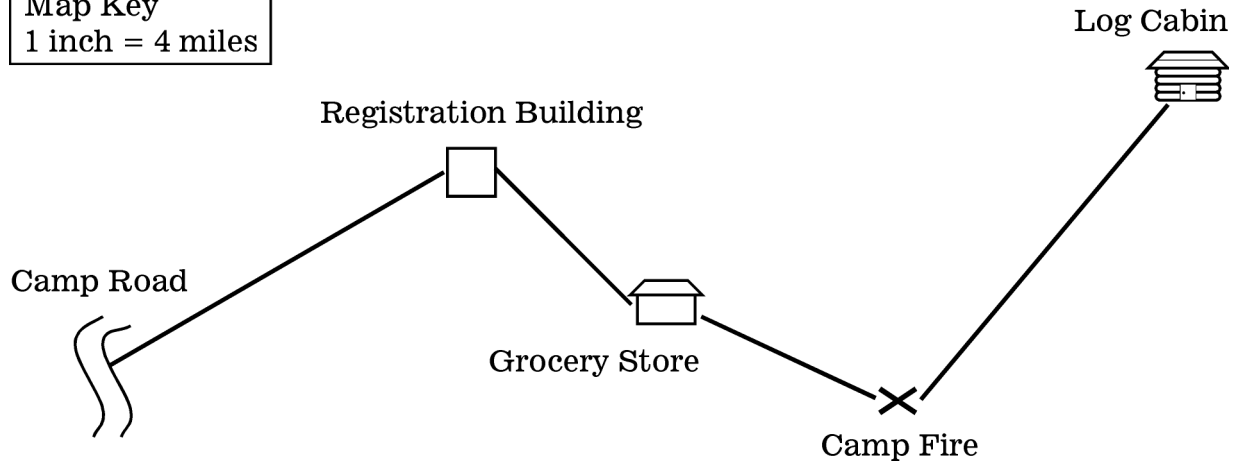
What is the distance in miles from the Camp Road to the log cabin?

A   6 miles   B   12 miles   C   24 miles   D   28 miles

---

30. Two-thirds of the figure below is shaded.
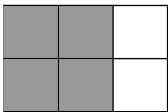
Which figure below is two-thirds shaded?

A

B

C

D

31. The model below has $\frac{3}{6}$ shaded.
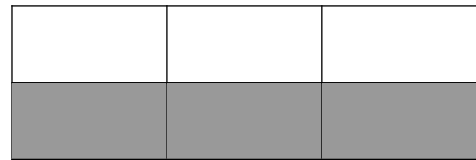
Shade the model below so that it has an equivalent to $\frac{3}{6}$ shaded.
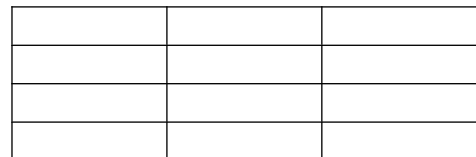
Write the fraction for the equivalent amount.

_____

32. If the following numbers were ordered from *greatest* to *least*, which would be the third number in the series?

A   265,431   B   252,152

C   265,205   D   265,402

33. Owena knows that there are 360 degrees in one complete circle. Owena turned the bicycle tire $\frac{3}{4}$ of a complete circle.
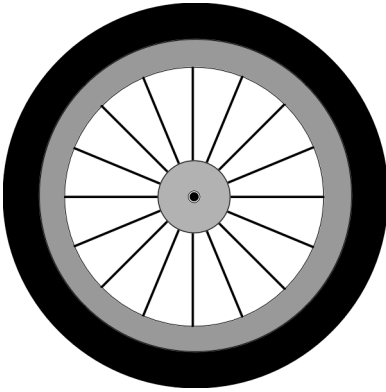
How many degrees did Owena turn the bicycle tire?

A   150 degrees   B   250 degrees

C   270 degrees   D   300 degrees

34. The quadrilateral shown is best classified as a _____ .

A   rectangle

B   rhombus

C   square

D   trapezoid
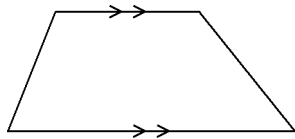
35. What is the greatest difference between the high and low temperatures?

Three-Day Mountain Conditions

SUN.	MON.	TUE.
H 79	H 75	H 72
L 56	L 58	L 48

A   15 degrees   B   17 degrees

C   23 degrees   D   24 degrees

36. Lars and his family are going to visit his grandmother on Saturday. The drive takes 1 hour and 45 minutes. If they leave at 9:15 am, what time should they arrive?

A   11:15 am

B   11:00 am

C   10:15 am

D   10:00 am
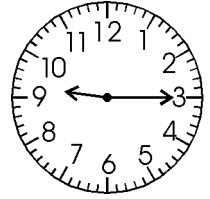
37. According to North Dakota State University, barley is used in sheep diets mainly to provide energy and protein. The farmer kept track of the amount of barley fed to the sheep each day and recorded the information in a line plot.

Barley (kilograms)
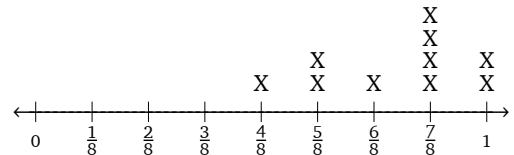
Which is the amount of barley fed most often?

A $\frac{1}{2}$ kilogram   B $\frac{5}{8}$ kilogram

C $\frac{3}{4}$ kilogram   D $\frac{7}{8}$ kilogram

38. During one week the total sales of towels and washcloths at a department store were $2,100. The store sold 150 washcloths for $4 each. It also sold 150 towels. What was the price of each towel?

A $9   B $10   C $12   D $15

39. Franklin and two friends earn $150 cleaning a neighbor's yard. They split the money equally, and Franklin goes to buy lunch at the sandwich shop. Then, with his remaining money, he goes to the music store to buy some CDs.

Look at the problem-solving steps shown below. Arrange the steps in the correct order to find out how much money Franklin has left to spend on the CDs.

> Step x: Find how much Franklin spent on lunch and subtract that from the amount of money he earned cleaning the yard.

> Step y: Find out how many people cleaned the yard.

> Step z: Divide $150 by the number of people who cleaned the yard to find each person's earnings.

40. A job is advertised at $375 each week. If vacation and holidays are paid, what would be the yearly salary?

  A $15,000   B $18,750

  C $19,500   D $20,000

41. Which of the following numbers has a 6 in the hundred thousands place, and a 9 in the tens place?

  A 367,498   B 697,834
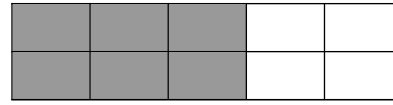
  C 636,894   D 696,834

42.

The models are shaded to show that—

  A $\dfrac{3}{5} = \dfrac{6}{10}$ B $\dfrac{2}{5} = \dfrac{6}{10}$

  C $\dfrac{3}{5} < \dfrac{4}{10}$ D $\dfrac{2}{5} > \dfrac{6}{10}$

43. Which group of mixed numbers is listed in order of greatest to least?

  A $2\frac{5}{9}, 3\frac{1}{3}, 3\frac{5}{6}, 2\frac{3}{4}$ B $2\frac{3}{4}, 3\frac{5}{6}, 3\frac{1}{3}, 2\frac{5}{9}$

  C $3\frac{5}{6}, 2\frac{5}{9}, 2\frac{3}{4}, 3\frac{1}{3}$ D $3\frac{5}{6}, 3\frac{1}{3}, 2\frac{3}{4}, 2\frac{5}{9}$

44. Compare the fractions using <, >, = .

  $\dfrac{5}{7} \bigcirc \dfrac{3}{4}$

45. Meredith had 9 pieces of Fruit Loop cereal on a small plate. She saw that less than $\frac{3}{9}$ of her cereal was orange. Sara also had 9 pieces of Fruit Loop cereal. She saw that more than $\frac{4}{9}$ of her cereal was green. What did Meredith's plate of Fruit Loops look like? Show an answer with your counters.

46. At the supermarket, Jethro picked up 6 bars of soap. Each bar was priced at 55¢. When Jethro went to pay for the soap, he gave the cashier a coupon that read: "Save 70¢ on 6 bars of soap or more." Which number sentence tells how much Jethro ended up paying for the soap (not including sales tax)?

A $(6 + 0.55) + 0.70 = \square$

B $(6 \times 0.55) - 0.70 = \square$

C $(0.70 \times 0.55) \times 6 = \square$

D $(0.70 - 0.55) \times 6 = \square$

47. Create five different expressions. In each expression, use at least three different numbers and two different operations from the box below. Show the value of each expression and explain how you used the order of operations rules.

2	5	3	4	9
	+	−	×	÷

48. In $\triangle MNP$, $MN = 10$, $NP = 12$, and $MP = 11$. Determine the largest angle of the triangle.

A $\angle M$ B $\angle N$ C $\angle P$

D cannot be determined from information given

49. What is the perimeter of the hexagon?
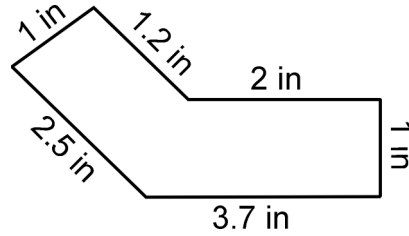
A 8.7 in. B 10.4 in.

C 11.4 in. D 16.7 in.

50. The graph shows the number of stray cats and dogs brought to the pound over a 4-week period.

How many cats were picked up during the 4 weeks?

A 5 B 25 C 40 D 65

1.
Answer: D
Objective: 1.N.1.8
Points: 1

2.
Answer: D
Objective: 1.GM.1.4
Points: 1

3.
Answer: A
Objective: 2.N.1.3
Points: 1

4.
Answer: 2,3,4
Objective: 2.N.1.3
Points: 1

5.
Answer: 434
Objective: 2.N.1.6
Points: 1

6.
Answer: [B],[D],[A],[C]
Objective: 2.N.2.1
Points: 1

7.
Answer: B
Objective: 2.A.2.2
Points: 1

8.
Answer: B
Objective: 2.N.2.2
Points: 1

9.
Answer: A
Objective: 2.N.2.4
Points: 1
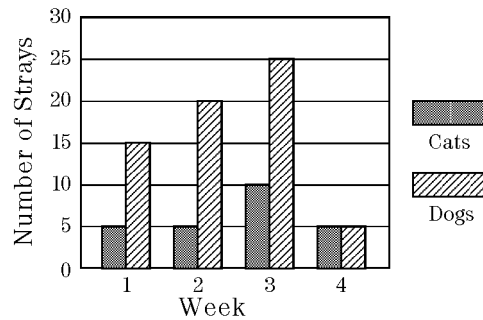
10.
Answer: C
Objective: 2.N.2.4
Points: 1

11.
Answer: C
Objective: 2.N.2.4
Points: 1

12.
Answer: C
Objective: 2.N.2.5
Points: 1

13.
Answer: C
Objective: 2.N.2.6
Points: 1

14.
Answer: [graph]
Objective: 2.D.1.2
Points: 1

15.
Answer: B
Objective: 2.GM.1.2
Points: 1

16.
Answer: C
Objective: 2.GM.3.1
Points: 1

17.
Answer: B
Objective: 3.N.1.1
Points: 1

18.
Answer: 1,2,3
Objective: 3.N.2.4
Points: 1

19.
Answer: A
Objective: 3.N.2.5
Points: 1

20.
Answer: 345
Objective: 3.N.2.5
Points: 1

21.
Answer: D
Objective: 3.N.2.7
Points: 1

22.
Answer: A
Objective: 3.N.2.7
Points: 1

23.
Answer: F,F,T
Objective: 3.N.3.4
Points: 1

24.
Answer: D
Objective: 3.D.1.2
Points: 1

25.
Answer: [task]; 7 squares
Objective: 3.A.1.3
Points: 1

26.
Answer: A
Objective: 3.GM.2.1
Points: 1

27.
Answer: C
Objective: 3.GM.2.1
Points: 1

28.
Answer: [task]; [answers vary]
Objective: 3.GM.2.6
Points: 1

29.
Answer: C
Objective: 4.N.1.5
Points: 1

30.
Answer: B
Objective: 4.N.2.1
Points: 1

31.
Answer: [task]; $\frac{6}{12}$
Objective: 4.N.2.1
Points: 1

32.
Answer: C
Objective: 4.N.2.7
Points: 1

33.
Answer: C
Objective: 4.GM.1.1
Points: 1

34.
Answer: D
Objective: 4.GM.1.2
Points: 1

35.
Answer: D
Objective: 4.GM.2.5
Points: 1

36.
Answer: B
Objective: 4.GM.3.1
Points: 1

37.
Answer: D
Objective: 4.D.1.3
Points: 1

38.
Answer: B
Objective: 5.N.1.4
Points: 1

39.
Answer: 2,3,1
Objective: 5.N.1.4
Points: 1

40.
Answer: C
Objective: 5.N.1.4
Points: 1

41.
Answer: C
Objective: 5.N.2.2
Points: 1

42.
Answer: A
Objective: 5.N.2.3
Points: 1

43.
Answer: D
Objective: 5.N.2.3
Points: 1

44.
Answer: <
Objective: 5.N.2.3
Points: 1

45.
Answer: answers vary
Objective: 5.N.2.3
Points: 1

46.
Answer: B
Objective: 5.A.2.1
Points: 1

47.
Answer: [answers vary]
Objective: 5.A.2.1
Points: 1

48.
Answer: A
Objective: 5.GM.1.1
Points: 1

49.
Answer: C
Objective: 5.GM.2.3
Points: 1

50.
Answer: B
Objective: 5.D.1.2
Points: 1