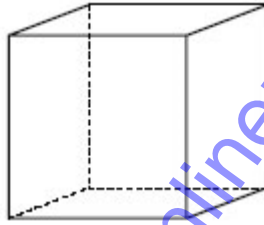1. Look at the figure below

Which statement about this figure is true?

(a) The figure has exactly 6 faces.

(b) The figure has exactly 6 edges.

(c) The figure has exactly 7 vertices.

(d) The figure has no parallel lines.

2. A restaurant has 38 tables. Each table can seat 4 people. If every table is full, how many people are seated in the restaurant at the same time?

(a) 34   (c) 122

(b) 42   (d) 152

3. Jon is 8 years old. His brother Tom is 2 years older than Jon, and their brother Henry is twice as old as Tom. Which number sentence could be used to find h, Henry's age?

(a) $8 \times 2 = h$

(c) $(8 + 2) \div 2 = h$

(b) $(8 + 2) \times 2 = h$

(d) $8 \times 2 \div 2 = h$

4. Lisa has $5.50 to buy supplies to make a birthday dessert for her mother. She can choose among the supplies listed in the table below. All prices include tax.

Birthday Dessert

Supplies	Price
Cake mix	$1.89
Frosting	$2.29
Candles	$0.99
Brownie mix	$2.49
Cookie dough	$1.99
Chocolate chips	$1.99

Which of the following combinations of supplies does she **NOT** have enough money to buy?

(a) Brownie mix, chocolate chips, and candles.

(b) Cookie dough, frosting, and candles

(c) Brownie mix, frosting, and candles.

(d) Cake mix, frosting, and candles

5. Bert's Electronics Store is having a sale. To advertise the sale, the store manager wants to outline the store window with colorful ribbon.
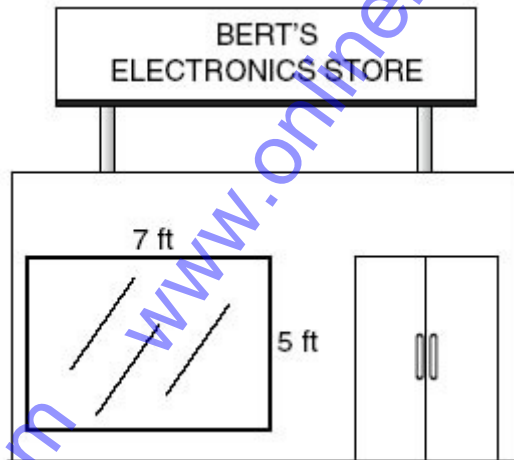
How many feet of ribbon will be needed to outline the 4 sides of the window?

(a) 35 ft

(c) 19 ft

(b) 24 ft

(d) 17 ft

6. Mr. Moore's students raised $109.57 the first week and $35.62 the second week of a school project. To determine whether they are halfway to their goal of $450.00, what should the students do?

(a) Add $109.57 and $35.62 and compare the sum to $450.00 divided by 2

(b) Subtract $35.62 from $109.57 and compare the difference to $450.00 divided by 2

(c) Multiply $109.57 by $35.62 and compare the product to $450.00 divided by 2

(d) Divide $109.57 by $35.62 and compare the quotient to $450.00 divided by 2

7. Which relationship between units of time is correct?

(a) One hour is $\frac{1}{365}$ of one year.

(b) One year is $\frac{1}{365}$ of one hour.

(c) One second is $\frac{1}{60}$ of one minute.

(d) One minute is $\frac{1}{60}$ of one second.

8. Each week Leanne spends the same amount of money to buy her lunch at school. She keeps a list in her notebook of how much money she has spent on lunches since the school year began. The table shows part of her list.

Leanne's Lunches

Week of School	Total Amount Spent
6	$60
7	$70
8	$80
9	$90

Which is **NOT** a way to find how much money Leanne spends on lunches each week?

(a) Divide $90 by 9

(b) Divide $60 by 6

(c) Subtract $60 from $90

(d) Subtract $70 from $80

9. Yushiqua rolled 3 fair number cubes, and the numbers shown below came out on top.

4   5   6

If each number is used only once, which group shows all the 3-digit numbers that can be made with these digits?

(a) 456, 565, 654

(b) 456, 546, 654, 645

(c) 456, 465, 564, 654, 546

(d) 456, 465, 564, 546, 645, 654

10. Carrie has 300 coins in her collection. She has 125 more coins than Michael and 50 fewer coins than Sara. How many coins does Michael have?

(a) 175   (c) 350

(b) 250   (d) 475

11. A florist posted the sign below in his store window.

Roses $1.00 each
or
$10.00 per dozen
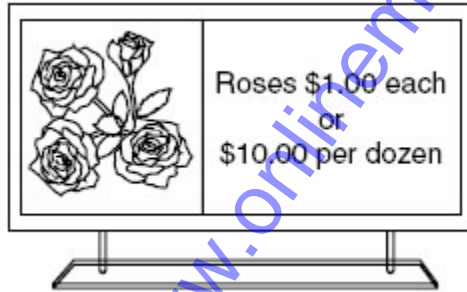
Sharla's mother needs to buy 3 dozen roses for Sharla's sister's wedding. According to the sign, how much will she save by buying the roses by the dozen instead of individually?
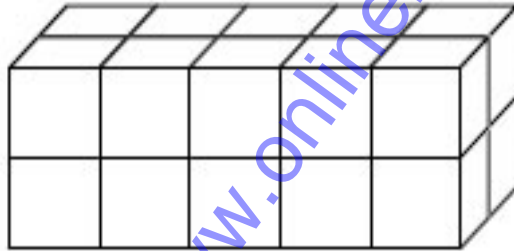
(a) $10.00

(c) $6.00

(b) $8.00

(d) $5.00

12. A rectangular prism made of 1-centimeter cubes is shown below.

What is the volume of this rectangular prism?

(a) 4cm³

(c) 10cm³

(b) 9cm³

(d) 20cm³

13. Clyde and Anita were making barbecue sauce. Clyde's recipe called for $\frac{1}{2}$ cup of honey, and Anita's recipe called for $\frac{3}{16}$ cup of honey. Which shows the correct relationship between these fractions?

(a) $\frac{1}{2} > \frac{3}{16}$
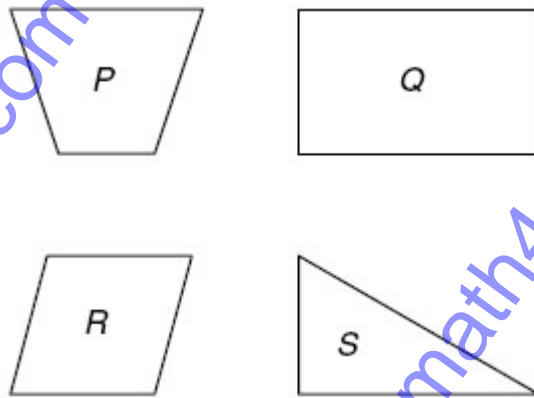
(c) $\frac{3}{8} > \frac{1}{4}$

(b) $\frac{1}{2} = \frac{3}{16}$

(d) $\frac{1}{2} < \frac{3}{16}$

14. The Milky Way galaxy has about 200,000,000,000 stars. How is this number written in words?
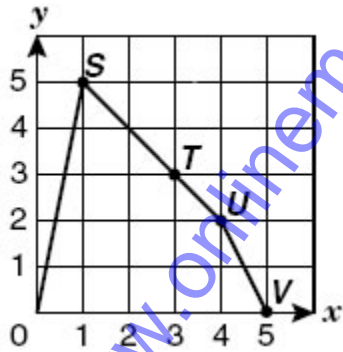
(a) Two hundred thousand

(c) Two hundred billion

(b) Two hundred million

(d) Two hundred trillion

15. Which statement about the figures shown below is true?

(a) Figures R and S are congruent.

(b) Figures Q and S each have parallel sides.

(b) Figures P and R each have at least 2 obtuse angles.

(d) Figures S and P each have all acute angles.

16. The graph shows a figure with 4 points labeled.

Which table shows the coordinates of these 4 points?

(a)

Point	S	T	U	V
x	1	3	4	5
y	5	3	2	1

(b)

Point	S	T	U	V
x	5	3	2	0
y	1	3	4	5

(c)

Point	S	T	U	V
x	5	3	2	0
y	1	3	2	0

(d)

Point	S	T	U	V
x	1	3	4	5
y	5	3	2	0

17. Look for the pattern in the sequences of numbers below.

2, 4, 6, 8, 10

7, 14, 21, 28, 35

11, 22, 33, 44, 55

Each sequence is an example of which kind of numbers?

(a) Even numbers   (c) Primes

(b) Multiples   (d) Odd numbers

18. Jesse's father ran a race from 11:10 A.M. to 2:25 P.M., as shown on the clocks below.

Start   Finish

For how many hours and minutes did Jesse's father run?

(a) 3 h 5 min   (c) 3 h 15 min

(b) 3 h 10 min   (d) 3 h 20 min

19. Which transformation is represented in the diagram?

(a) Reflection   (c) Rotation

(b) Translation   (d) None of these

20. The table below shows the populations of 5 different cities.

City Populations

City	Population
Seaside	50,235
Oceanside	45,006
Lakeside	71,213
Mountainside	67,250
Riverside	32,701

Which city in the table represents the median population?

(a) Seaside   (c) Mountainside

(b) Oceanside   (d) Riverside

21. Bart's drama club put on a play. There were 843 people in the audience. Each ticket to the play cost $8. The audience was seated in 3 sections. If each section had the same number of people in it, how many people were in each section?

(a) 261   (c) 286

(b) 281   (d) 231

22. Mr. LaSalle is buying ice-cream bars for the 8 dozen fifth graders at his school. The ice-cream bars are packaged 10 to a box. What is the least number of boxes he can buy so that each fifth grader gets at least 1 ice-cream bar?

(a) 12   (c) 9

(b) 10   (d) 8

23. Erin's brother weighed 6 pounds 5 ounces when he was born. How many ounces did her brother weigh when he was born?

(a) 5 oz   (c) 101 oz

(b) 96 oz   (d) 176 oz

24. A basketball team scored 48 baskets in 1 game. Each basket was worth one or two points. If the team scored 84 points, how many one-point baskets and two-point baskets did it score?

(a) 6 one-point baskets, 42 two-point baskets

(b) 12 one-point baskets, 36 two-point baskets

(c) 16 one-point baskets, 32 two-point baskets

(d) 20 one-point baskets, 32 two-point baskets

25. Marcie has 11 letter cards that spell the word MISSISSIPPI when put together. If she picks 1 card without looking, what is the probability that it will have the letter S on it?

(a) 4/7   (c) 4/11

(b) 3/7   (d) 7/11

26. Stella stores videotapes side by side on a shelf, as shown below. Use the ruler on the Mathematics Chart to measure the width in inches of one videotape.

Width
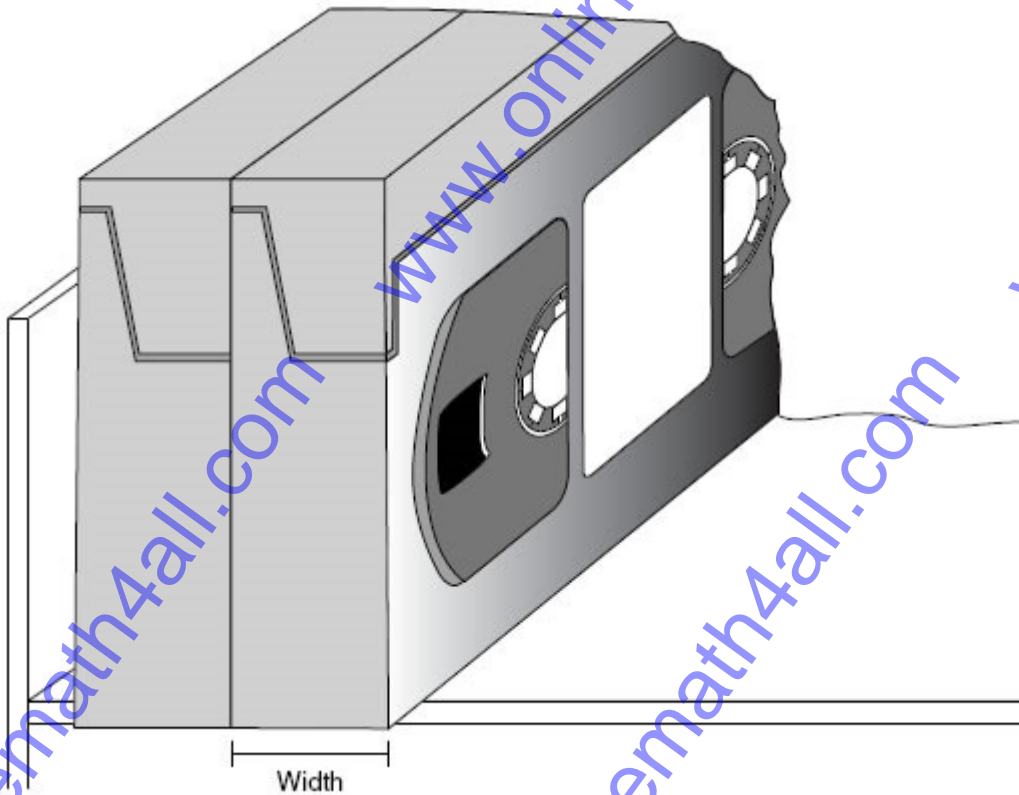
If the shelf is 3 feet long, what is the greatest number of videotapes that Stella can store on the shelf?

(a) 12

(c) 36

(b) 24

(d) 48

27. The list below contains the 8 factors of which number?

2, 18, 9, 54, 6, 27, 3, 1

(a) 18

(c) 54

(b) 24

(d) 27

28. The table shows the results of 18 spins Jules made with a spinner.

Spinner Results

Fruit	Number of Spins
Grape	5
Apple	4
Orange	6
Pear	3

Based on these results, what is the probability that Jules's spinner will land on the apple on his next spin?

(a) 2/9

(c) 2/7

(b) 1/4

(d) 1/3

29. Alma shaded $\frac{3}{5}$ of her design
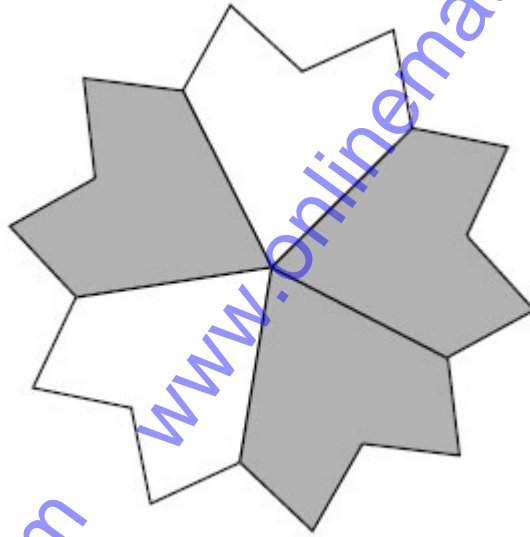
Which decimal number represents the shaded part of her design?

(a) 0.6

(c) 0.0006

(b) 0.006

(d) 0.00006

30. Which shape could never have parallel sides?

(a) Rhombus

(c) Octagon

(b) Triangle

(d) Pentagon

31.

The fractions $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, and $\frac{5}{10}$ are each equivalent to $\frac{1}{2}$. What is the relationship between the numerator and denominator in each fraction that is equivalent to $\frac{1}{2}$?

(a) The numerator is twice the denominator.

(b) The denominator is twice the numerator.

(C) The numerator is 2 more than the denominator.

(d) The denominator is 2 more than the numerator.

32. Ally has to choose teams of 2 people for a game. Each team must have 1 boy and 1 girl on it. The people from whom Ally can choose are shown below.
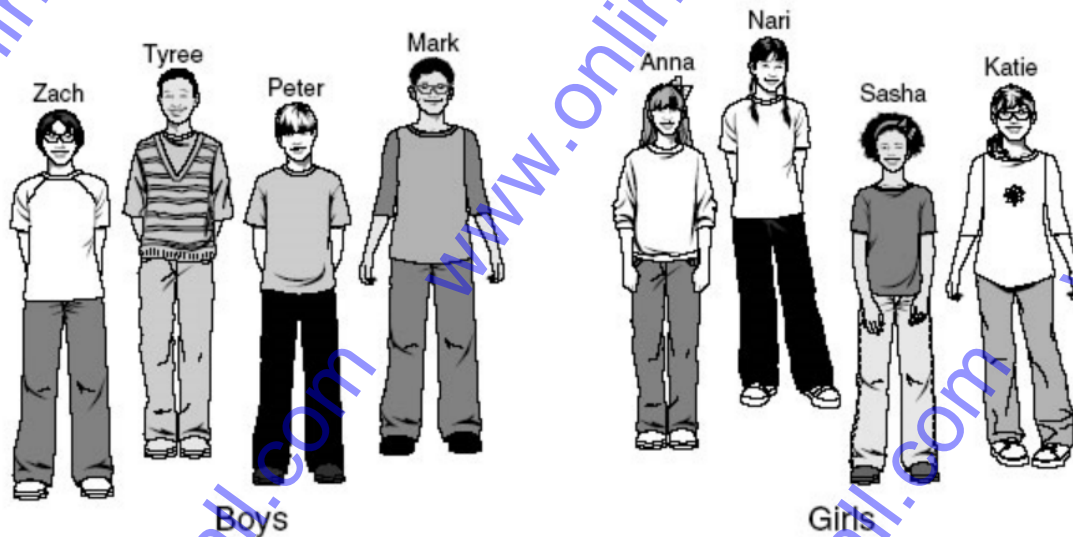
How many different team combinations are possible using these boys and girls?

(a) 16   (c) 12

(b) 8   (d) 4

33. Which of the following numbers is less than 6.001?

(a) 6.011   (c) 6.101

(b) 6.0   (d) 6.1

34. Vanessa poured 250 milliliters of water into a flowerpot. What fractional part of a liter is 250 milliliters?

(a) 1/2

(c) 1/4

(b) 1/3

(d) 1/25

35. Which group shows all the numbers that are common factors of 36 and 48?

(a) 1, 2, 3, 4, 6

(c) 1, 2, 3, 4, 6, 9, 12, 18

(b) 1, 2, 3, 4, 6, 12

(d) 1, 2, 3, 4, 6, 8, 12, 16, 24

36. Pat gives his pet rabbit $\frac{1}{3}$ cup of dry food in the morning and $\frac{1}{3}$ cup of dry food in the afternoon, as shown in the measuring cups below.

Morning   Afternoon
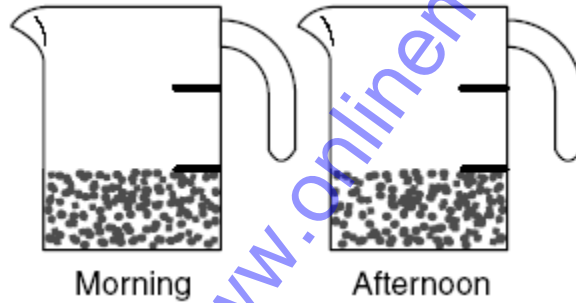
How much dry food does he give his rabbit each day?

(a) (1/3) c   (c) (1/5) c

(b) (2/3) c   (d) 1 c

---

37. A track team ran 4 miles in 36 minutes. Which shows how to find the number of minutes it would take the track team to run 20 miles?

(a) 36 ÷ 4 = 9, so 9 × 20 = 180 minutes

(b) 4 × 9 = 36, so 9 × 36 = 324 minutes

(c) 36 ÷ 4 = 9, so 4 × 36 = 144 minutes

(d) 4 × 5 = 20, so 5 × 20 = 100 minutes

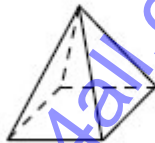38. A school basketball team won 8 of the 20 games it played. What fraction of its games did the team win?

(a) 1/28   (c) 2/5
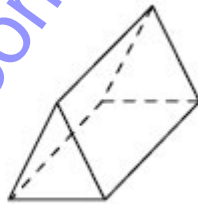
(b) 1/12   (d) 5/2
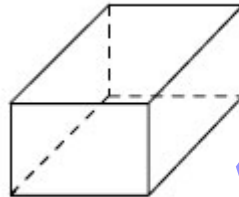
39. Which figure below has 10 vertices?

U   V   W   X

(a) Figure U   (c) Figure W

(b) Figure V   (d) Figure X

40. Juan bought 4 packets of notebook paper for school last year. Each packet contained 500 sheets of paper. He used about 20 sheets of paper each week. What information is needed to find the approximate number of sheets of paper Juan had left after the school year was over?

(a) The number of hours Juan did homework every day

(b) The number of classes Juan had

(c) The number of students in Juan's grade

(d) The number of weeks in the school year

41. Which pair of eagle pictures shows a translation?

(a)

(c)

(b)

(d)
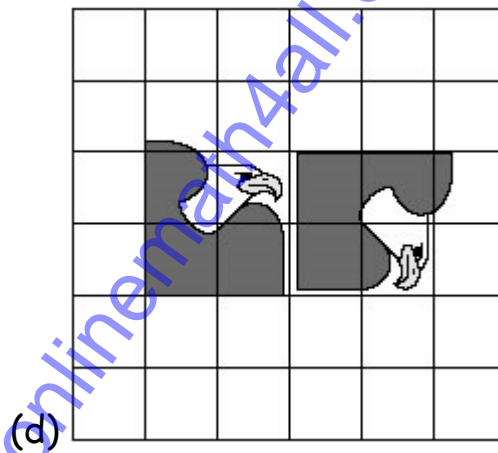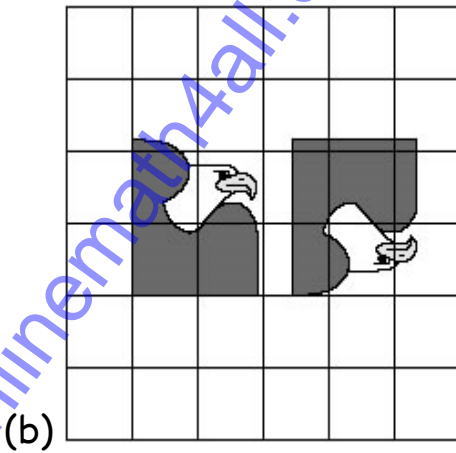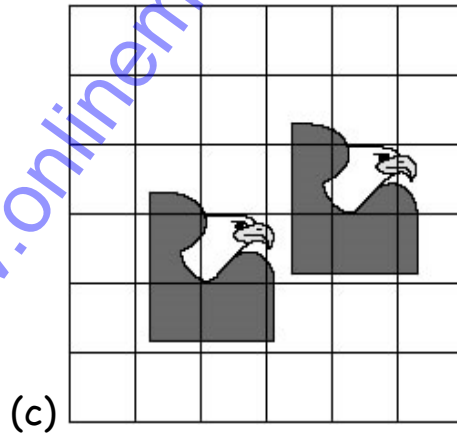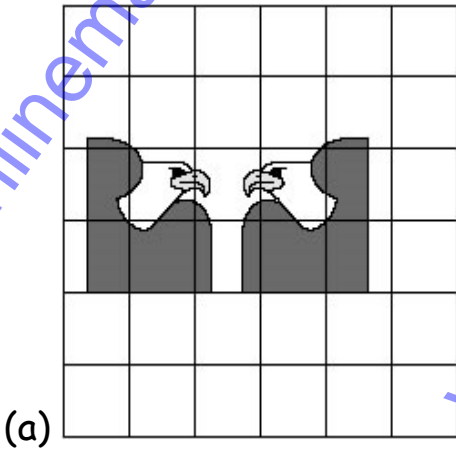
42. A parking lot has 6 rows, with 24 spaces in each row. If 83 spaces are occupied, which of the following shows a way to find the number of empty spaces in the parking lot?

(a) Add 24 to the product of 83 and 6

(b) Add 83 to the product of 24 and 6

(c) Subtract 24 from the product of 83 and 6

(d) Subtract 83 from the product of 24 and 6

43. Mr. Lyons bought a computer that was on sale for $816. The regular price of the computer was $1,395. Which is the best estimate of the amount of money Mr. Lyons saved by buying the computer on sale?

(a) $500   (c) $1,400

(b) $600   (d) $2,200

44. Jordan made the grid below to show the location of some things in his yard.
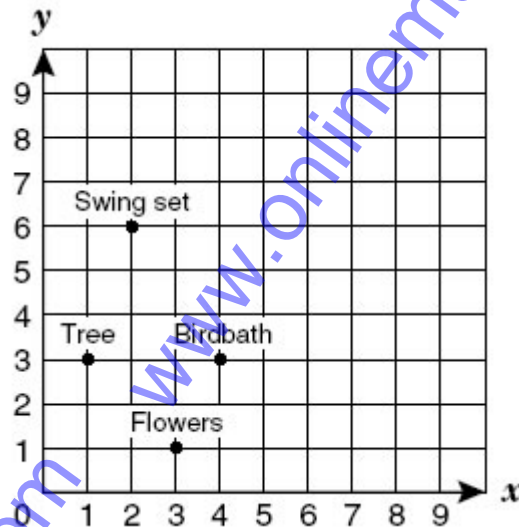
Which ordered pair best represents the point on the grid labeled "Tree"?

(a) (2, 6)   (c) (1, 3)

(b) (3, 1)   (d) (4, 3)

45. Carlos earns $11 each week taking care of pets. Which of the following is the best estimate of how much money he will earn in 48 weeks taking care of pets?
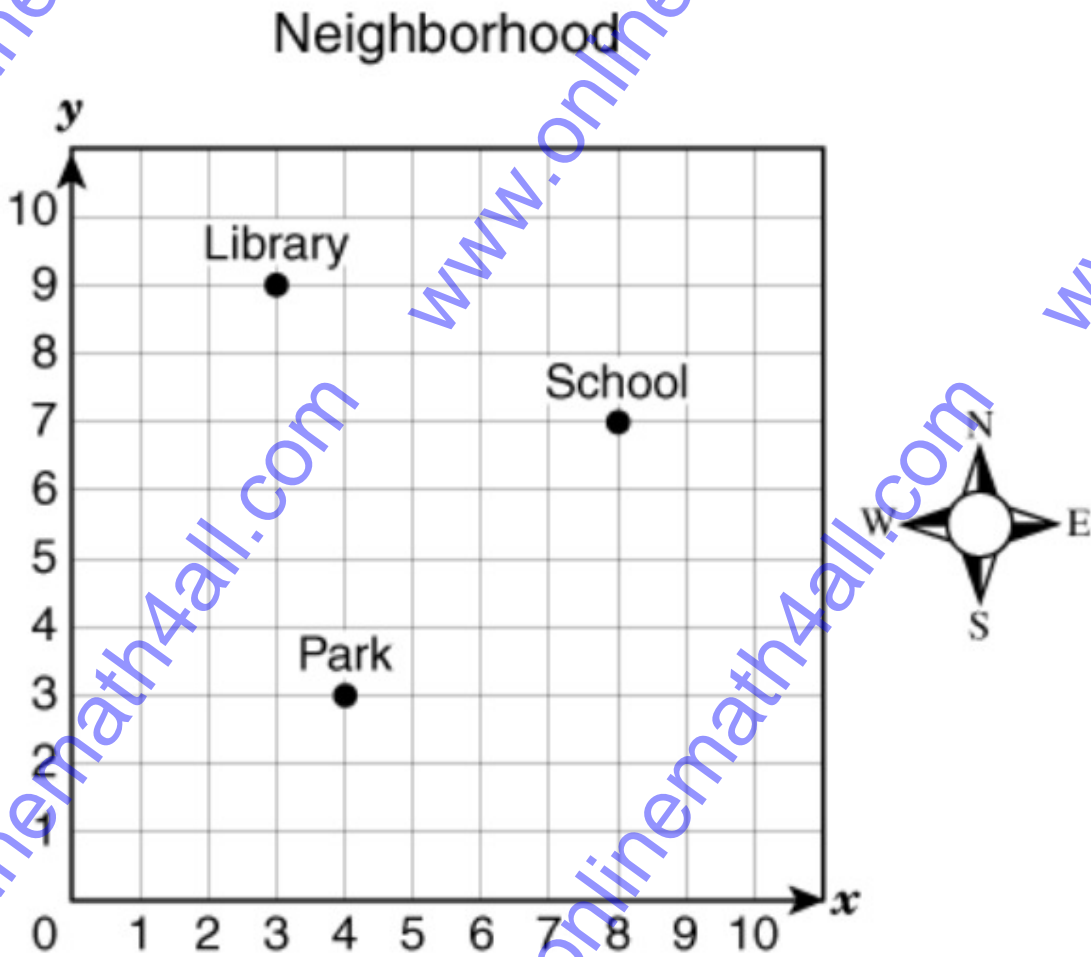
(a) $1,000   (c) $300

(b) $500   (d) $800

46. The grid below shows the location of 3 places in a neighborhood.

Neighborhood

If the post office is 2 units directly south of the school, which of the following ordered pairs best represents the post office's location?

(a) (5, 8)

(b) (10, 8)

(c) (8, 5)

(d) (8, 10)

47. The table below shows the total number of pictures that can be taken with different numbers of rolls of film.

Camera Pictures

Number of Rolls of Film	5	8	11	14
Total Number of Pictures	120	192	264	336

Which of the following statements best describes the relationship between the number of rolls of film and the total number of pictures?

(a) The total number of pictures equals the number of rolls of film times 24.

(b) The total number of pictures equals the number of rolls of film divided by 8.

(c) The total number of pictures equals the number of rolls of film times 120.

(d) The total number of pictures equals the number of rolls of film divided by 5.

48. What will be the next number of the following sequence?

5, 15, 20,____

(a) 28   (c) 21

(b) 25   (d) 26

49. Robert and Julia collect stamps. Robert has 54 stamps in his stamp collection. He has 18 more stamps than Julia does. Which of the following equations can be used to find s, the number of stamps Julia has in her collection?

(a) $s = 54 + 18$ (c) $s = 54 × 18$

(b) $s = 54 - 18$ (d) $s = 54 ÷ 18$

50. Add the following 28.32 + 22.16

(a) 50.48   (c) 60.48

(b) 62.58   (d) 52.26

Answers:

1. a   2. d   3. b   4. c   5. b   6. a

7. c   8. c   9. d   10. a   11. c   12.d

13.a   14. c   15. c   16. d   17. b   18. c

19. c   20. a   21. b   22. b   23. c   24. b

25. c   26. c   27. c   28. a   29. a   30. b

31. b   32. a   33. b   34. c   35. b   36. b

37. a   38. c   39. d   40. d   41. b   42. d

43. b   44. c   45. b   46. c   47. a   48. b

49. b   50. a