1. Which of the following symbol makes the following statement true?

$$\frac{8}{9} \bigcirc \frac{5}{9}$$

(a) <

(c) >

(b) =

(d) None of these

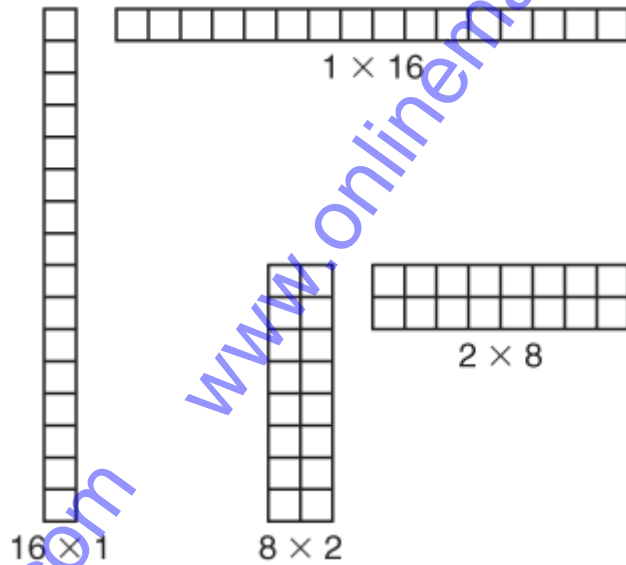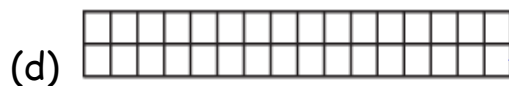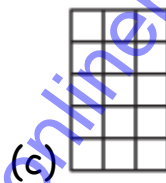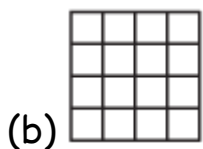2. How many prime numbers between 1 and 100.

(a) 21

(c) 27

(b) 25

(d) 28

3. Some arrays for the number 16 are shown below.

1×16

16×1

8×2

2×8

Which shows another array for the number 16?

(a)

(b)

(c)

(d)

4. The windows are being cleaned in all the first-floor classrooms at Alamo Elementary School. There are 12 classrooms on the first floor, and each classroom has 12 windows. How many windows will be cleaned on the first floor?
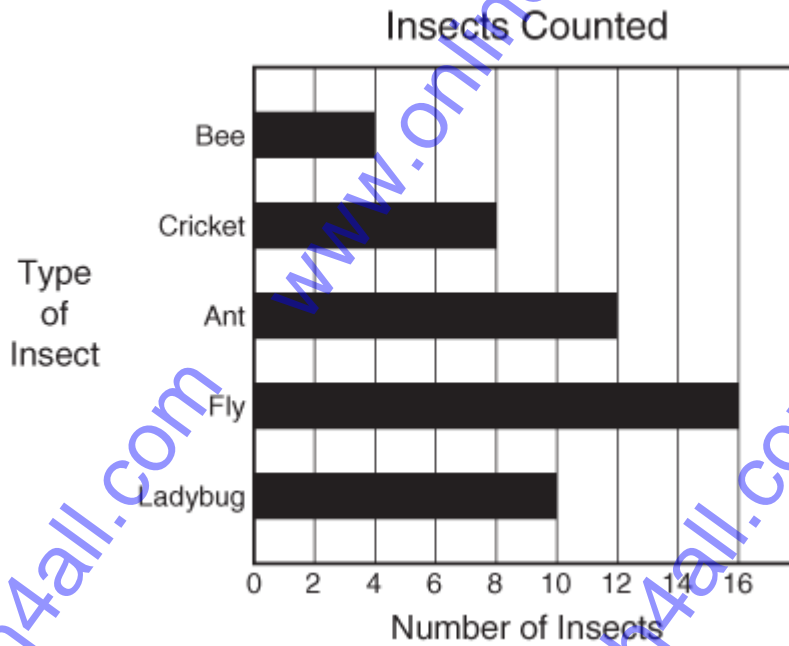
(a) 154

(c) 132

(b) 144

(d) 120

5. The graph below shows the number of insects counted by students in Mr. Green's class during a field trip to a nature park.

Insects Counted

According to the graph, how many more ladybugs and ants were counted than crickets?

(a) 14

(c) 26

(b) 22

(d) 30

6. The table below shows the number of baseball tickets sold at a stadium in the years 2001 through 2004.

Baseball Tickets Sold

Year	2001	2002	2003	2004
Number of Tickets	1,790,112	2,088,165	2,240,198	2,209,871

In which year were the most baseball tickets sold?
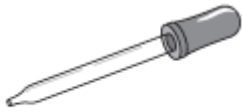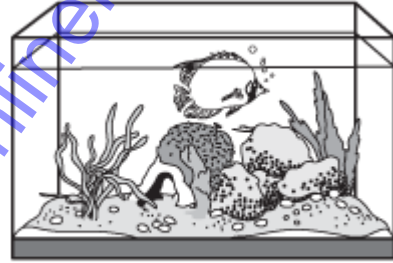
(a) 2001

(c) 2003

(b) 2002

(d) 2004

7. Which of the following holds only 1 milliliter of water?

(a) Dropper

(c) Aquarium

(b) Water Bottle

(d) Water Tower

8. Each number in Set P is related in the same way to the number beside it in Set Q

Set P	Set Q
3	9
10	30
7	21
50	150

When given a number in Set P, what is one way to find its related number in Set Q?

(a) Add 6

(c) Multiply by 2

(b) Add 20

(d) Multiply by 3

9. A cafeteria manager purchases bananas only in 12-pound boxes. If the manager purchases 100 boxes of bananas in a year, how many pounds of bananas does she purchase?

(a) 1,200 pounds

(c) 120 pounds

(b) 1,012 pounds

(d) 112 pounds

10. Humberto was looking at the table below, which shows the heights of four very tall people.

Tall People

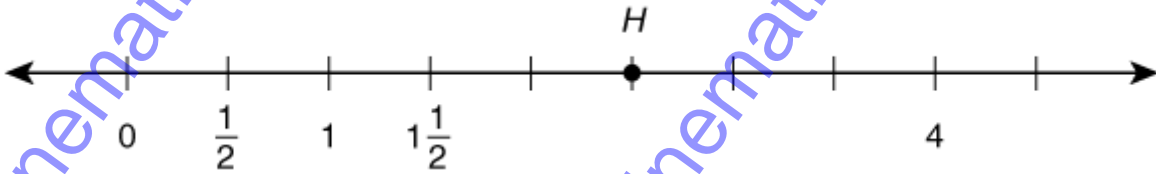| Person	Height (cm)
Robert	272
John	264
Vaino	251
Bernard	249

Humberto is 1 meter 39 centimeters tall. How much taller is Robert than Humberto?

(a) 143 cm   (c) 147 cm

(b) 133 cm   (d) 125 cm

11. Don can ride his bike 19 miles in one hour. If he rides at the same speed, about how many miles can he ride in 3 hours?

(a) 6 miles   (c) 60 miles

(b) 40 miles   (d) 75 miles

12. What number on the number line does point *H* best represent?
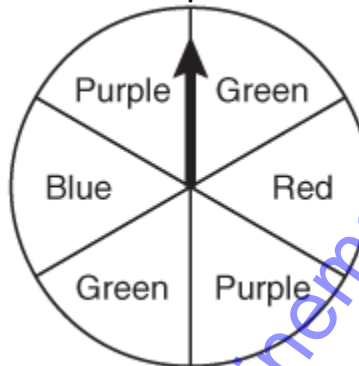

(a) 2

(c) 3

(b) 2 ½

(d) 3 ½

13. Kyle will spin the arrow on a spinner like the one shown below.

If Kyle spins the arrow twice, which of these is **NOT** a possible outcome?

(a) Green, green

(c) Blue, blue

(b) Purple, green

(d) Red, orange

14. The table below shows the regular prices of some shirts and the prices with a coupon.

Shirt Prices

Regular Price	Price with Coupon
$17	$12
$21	$16
$25	$20
$29	$24

Based on the information in the table, which could be the discount offered with the coupon?

(a) Take $4 off the regular price

(b) Take $5 off the regular price

(c) Get 2 shirts for the price of 1

(d) Get 1 shirt for $5

15. Hanady's school recycles phone books for the community. Hanady is stacking phone books on a cart that can hold up to 35 pounds of weight. If 1 phone book weighs about 3 pounds, what is the greatest number of phone books that Hanady can safely stack on the cart?

(a) 15   (c) 11

(b) 33   (d) 38

16. Lorraine had a box of 300 crackers. After she and her brothers ate some crackers, there were 78 crackers left in the box. Which question can be answered with this information?

(a) How many brothers does Lorraine have?

(b) How many crackers did one of Lorraine's brothers eat?

(c) How many of Lorraine's brothers eat crackers?

(d) How many crackers were eaten by Lorraine and her brothers?

17. Which pair of numbers best completes this table?

Number	Number × 10
625	6,250
304	3,040
158	1,580

(a)

819	8,190

(c)

405	4,005

(b)

320	3,220

(d)

271	2,107

18. Callie is measuring an object's mass in grams. Which of the following objects is she most likely measuring?

(a) Her desk at school

(c) A dictionary at the library

(b) The pen from her pocket

(d) Her mother's car

19. Look at the map below.

Which streets appear to be perpendicular to each other?

(a) 1Main and Maple

(c) Oak and Main

(b) Elm and Oak

(d) Oak and Maple

20. Ms. Powell has donated a total of $348 to a library during the past 4 years. She has donated the same amount of money each year. How much money has Ms. Powell donated to the library in each of the past 4 years?

(a) $82

(c) $352

(b) $87

(d) $344

21. Greg would like to cover a wall of his room with posters. He needs to know the area of the wall before he buys the posters. The wall is 12 feet wide and 8 feet high. What is the area of the wall?

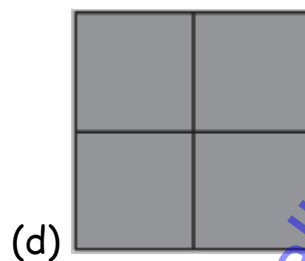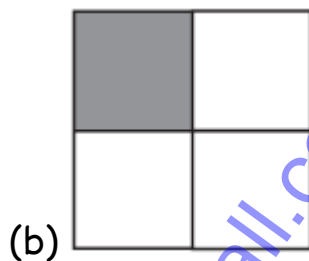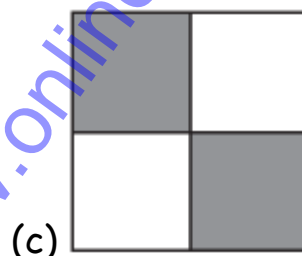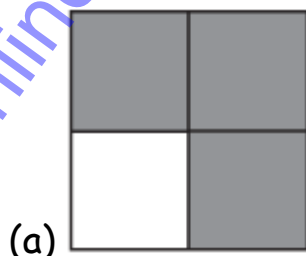(a) -20 square feet

(c) 84 square feet

(b) 40 square feet

(d) 96 square feet

22. The model is shaded to represent a fraction.

Which model below shows an equivalent fraction?

(a)

(c)

(b)

(d)

23. A class is going on a field trip. Each group of 5 students will need an adult helper. What can the teacher do to find out how many adult helpers are needed?

(a) Multiply the total number of students by 5

(b) Add 5 to the total number of students

(c) Subtract 5 from the total number of students

(d) Divide the total number of students by 5

24. Aaron exercises every day of the week. If he does 25 jumping jacks each day, how many jumping jacks will he do in 1 week?

(a) 125   (c) 145

(b) 175   (d) 155

25. Three brothers worked around their neighborhood to earn money to buy concert tickets. The table below shows the amount of money earned by each brother.

Money Earned

Brother	Amount of Money
Josh	$12
Cody	$9
Tyler	$11

After putting their money together, the brothers bought 3 tickets that cost $10 each. Which shows the amount of money the brothers had left?

(a) $12   (c) $32

(b) $2   (d) $22

26. Leslie reserved a computer at the library for a 5-hour period. Her starting time is shown on the clock below.

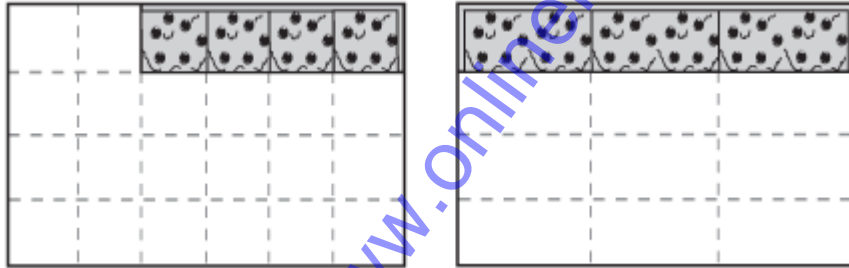At what time should Leslie's computer period end?

(a) 3:30 P.M.   (c) 1:30 P.M.

(b) 2:30 P.M.   (d) 1:30 P.M

27. The two pans of brownies below show what was left after several students finished eating.

Which of the following compares the portion of brownies left in each pan?

(a) $\dfrac{4}{24} < \dfrac{3}{12}$

(c) $\dfrac{4}{20} > \dfrac{3}{9}$
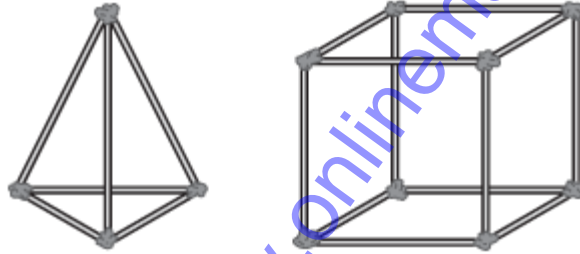
(b) $\dfrac{3}{24} > \dfrac{4}{24}$

(d) $\dfrac{4}{12} < \dfrac{3}{12}$

28. Corinne made the 2 models shown below by connecting straws with pieces of clay.

If Corinne counts the number of straws she used for both models, what information will she have?

(a) The total number of vertices

(b) The total number of edges

(c) The total number of faces

(d) The total number of angles

29. Jenna has 12 days left to read a 192-page book for a report. She has already read 60 pages. Which would be the best way for Jenna to find how many pages she should read each day to finish the book on time?

(a) Subtract 12 from 192 and then divide by 60

(b) Multiply 60 by 12

(c) Divide 192 by 12

(d) Subtract 60 from 192 and then divide by 12

30. Exactly 90 players signed up to play in a baseball league. There were 10 players on each team. Which number sentence is in the same fact family as 90 ÷ 10 = ☐?

(a) 9 × ☐ = 90

(c) ☐ × 90 = 10

(b) 90 × 10 = ☐

(d) 9 × 90 = ☐

31. The table below shows the number of points scored by Team A and Team B during 2 parts of a game show.

Game Show

	Part 1	Part 2
Team A	320 points	610 points
Team B	590 points	490 points

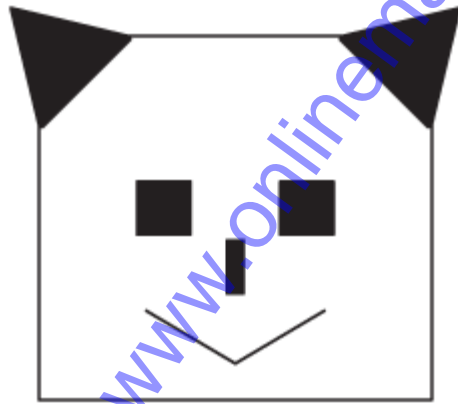How many more points in all did Team B score than Team A?

(a) 50

(c) 190

(b) 150

(d) 270

32. Zelda drew the cat's head shown below.

Which part of the cat's head appears to have acute angles?

(a) Eyes   (c) Ears

(b) Nose   (d) Mouth

33. Mr. Henderson is a guest reader for 6 classes at Thompson Elementary School. He plans to read a different story to each of the classes listed below.

Class	Reading Time
1	23 minutes
2	26 minutes
3	23 minutes
4	26 minutes
5	25 minutes
6	25 minutes

Mr. Henderson can stay for only 9/4 hours. Which strategy can he use to find whether he has enough time for all 6 classes?

(a) Add all the reading times together to decide whether the sum in minutes is more or less than 6 classes

(b) Draw a picture of him self with each of the 6 classes

(c) Add all the reading times together to decide whether the sum in minutes is more or less than 9/4 hours

(d) Multiply 6 classes by 26 minutes

34. A beetle crawled up and down a plant 4 times each day for a week. What information is needed to find the total distance the beetle traveled during the week?

(a) The plant's height   (c) The weather during the week

(b) The beetle's length   (d) The type of plant

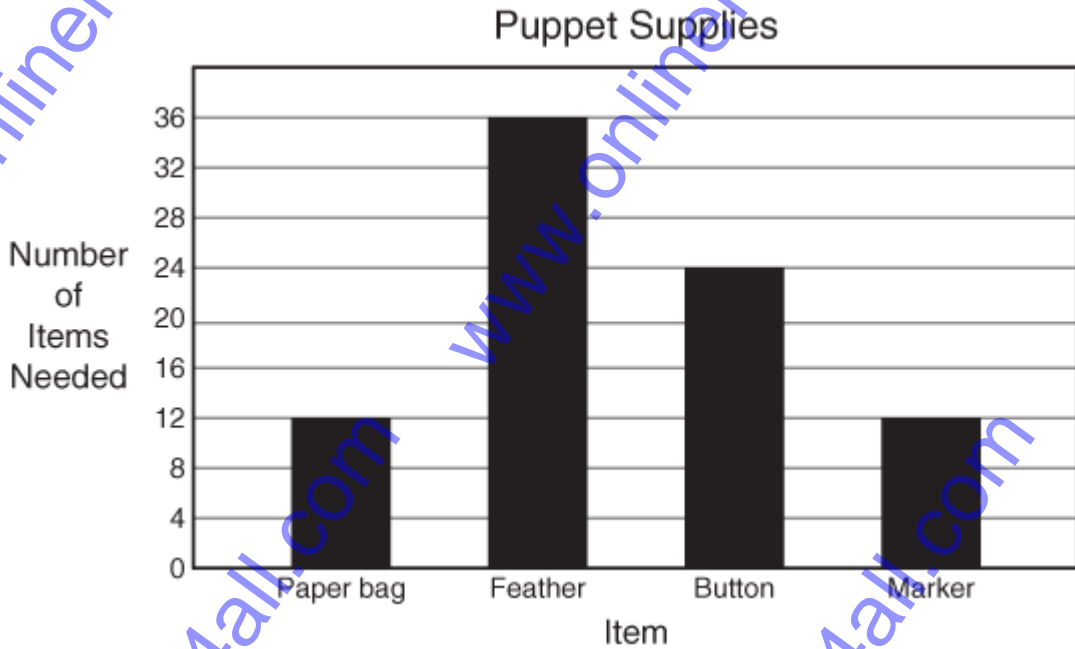35. The table below shows the number of square pyramids and the number of faces on these square pyramids.

Faces on Square Pyramids

Number of Square Pyramids	Number of Faces
4	20
8	40
12	60

Which correctly describes the relationship in the table?

(a) Number of square pyramids + 16 = number of faces

(b) Number of square pyramids + 32 = number of faces

(c) Number of square pyramids × 4 = number of faces

(d) Number of square pyramids × 5 = number of faces

36. The graph below shows the supplies an art club needs to make puppets.

Puppet Supplies

The feathers will be divided equally among 12 students. How many feathers will each student get?

(a) 2

(c) 12

(b) 3

(d) 36

37. The table below shows the years on the pennies Kim has in her pocket.

Kim's Pennies

Year on Penny	Number of Pennies
1987	2
1992	2
1994	1
1995	3
1998	2
1999	2

If Kim reaches into her pocket and pulls out 1 penny without looking, what is the probability that the year on the penny will be 1999?

(a) 2 out of 6

(c) 2 out of 12

(b) 2 out of 10

(d) 2 out of 13

38. There are 9 tables in a restaurant. Each table can seat only 6 people. Which number sentence shows how to find the greatest number of people who can be seated in the restaurant at one time?

(a) 6 + 9 = ☐   (c) 9 ÷ 6 = ☐

(b) 9 – 6 = ☐   (d) 6 × 9 = ☐

39. Which single transformation is represented from Figure X to Figure Y below?
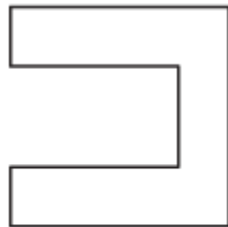
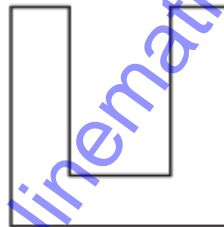

Figure X   Figure Y

(a) Translation   (c) Reflection

(b) Rotation   (d) None of these

40. The table below shows the distances in feet climbed by 4 rock climbers.

Rock Climbing

Climber	Distance Climbed (feet)
Juan	12,692
Barbara	18,389
Pete	15,075
Li	22,966

Which is the best estimate of how many more feet Li climbed than Juan?

(a) 8,000 feet

(b) 9,000 feet

(c) 10,000 feet

(d) 11,000 feet

41. Look at the 2 sets of numbers below.

Set Y	Set Z
1122	1212
3366	1313
4488	1515

Which number belongs in Set Y?

(a) 1414

(c) 2424

(b) 2244

(d) 1441

42. In which number sentence does 3 make the equation true?

(a) 21 ÷ ☐ = 7

(c) ☐ × 21 = 7

(b) 21 × 7 = ☐

(d) ☐ ÷ 7 = 21

43. Which number has at least 1 line of symmetry?

(a) 5

(c) 7

(b) 6

(d) 8

44. A piece of cake has 347 calories in it. How many calories are there in 8 pieces of cake?

(a) 2276 calories

(c) 2776 calories

(b) 2528 calories

(d) 2358 calories

45. There is 135 feet of making tape on a roll. Henry has 6 rolls. How many feet of masking tape does he have in all?

(a) 810 feet

(c) 910 feet

(b) 710 feet

(d) 610 feet

46. An adult panda can eat 138 pounds of bamboo each day. How many pounds of bamboo can a panda eat in a week?
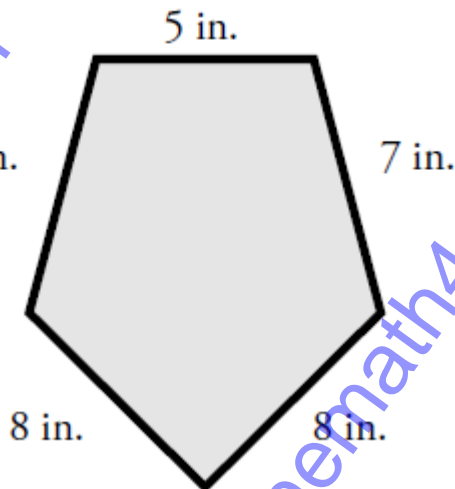
(a) 566 pounds   (c) 286 pounds

(b) 966 pounds   (d) 766 pounds

47. Find the perimeter of the following shape

(a) 65 inches   (c) 90 inches

(b) 35 inches   (d) 40 inches

48. If 7x – 2x + 3x = 16, find x.

(a) 1

(c) 2

(b) 5

(d) 6

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49. How many more tickets were sold by Carol than Bob?

Name	# of Tickets
Alice	790473
Bob	457468
Carol	853615
David	379599

(a) 396,147

(c) 396247

(b) 396425

(b) 325647

50. The below picture represents the example of _____

(a) Turn

(c) Slide

(b) Flip

(d) Rotation

Answers:

1. c	2. b	3. b	4. b	5. a	6. c
7. a	8. d	9. a	10. b	11. c	12. b
13. d	14. b	15. c	16. d	17. a	18. b
19. a	20. b	21. d	22. c	23. d	24. b
25. b	26. b	27. a	28. b	29. d	30. a
31. b	32. c	33. c	34. a	35. d	36. b
37. c	38. d	39. b	40. c	41. b	42. a
43. d	44. c	45. a	46. b	47. b	48. c
49. a	50. a				