

1. The value of $(-10) + 92 + 84 + (-15)$ is

(a) 150

(c) 161

(b) 152

(d) 151

2. L.C.M. of 24 and 40 is

(a) 120

(c) 8

(b) 12

(d) 16

3. The number that should replace the box, so that the following forms a proportion, is

(a) 14

(c) 18

(b) 16

(d) 20

4. The product of two numbers is 3000. If the H.C.F. of the number is 10, then L.C.M. will be

(a) 30

(c) 305

(b) 300

(d) 5

5. $\frac{1}{4}$ is equivalent to

(a) 25%

(c) 50%

(b) 30%

(d) 75%

6. A basket contains 300 mangoes. 75 mangoes were distributed among students. The percentage of mangoes left in the basket is

(a) 25%

(c) 50%

(b) 30%

(d) 75%

7. How many lines can be drawn to pass through two points simultaneously?

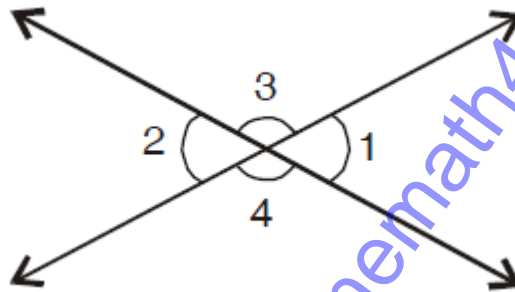
(a) One

(c) more than three

(b) Two

(d) no line

8. For the following figure, which of the following is false?



(a) $\angle 1 = \angle 2$

(c) $\angle 3 + \angle 1 = 180^\circ$

(b) $\angle 4 = \angle 3$

(d) $\angle 1 = \angle 4$.

9. $11111 - 1111 + 111 - 11 + 1$ is

(a) 12345

(c) 9901

(b) 10101

(d) 102

10. $6 + 0 \div 6 \times 2 + 1$ equals

(a) 18

(c) 3

(b) 7

(d) 0

11. If $\square + 50 = \diamond$ and $\square - 50 = \circ$ what is correct relation between \diamond and \circ

(a) $50 + \circ = \diamond$

(c) $50 - \circ = \diamond$

(b) $100 + \circ = \diamond$

(d) $50 - \circ = \diamond$

12. Tina is building an open-ended (straight) fence by stringing wire between posts 25 meters apart. If the fence is 100 meters long, how many posts should she use?

(a) 2

(c) 4

(b) 3

(d) 5

13. I think of a number, add 10 to it and divide the answer by 2. Let the resulting number be. Starting with, how can I get my original number back?

(a) Multiply \odot by 2 and then subtract 10 from the result

(b) Divide \odot by 2 and then add 10 to the result

(c) Multiply \odot by 2 and then add 10 to the result

(d) Add 2 \odot to and then divide the resulting number by 10

14. Find L.C.M. of following numbers. 12, 24, 48, 108

(a) 504

(c) 405

(b) 432

(d) 440

15. John has 558 flags to pack into boxes. Each box will hold 62 flags. How many boxes will John need to hold all the flags?

(a) 34,596

(c) 9

(b) 0.9

(d) 620

16. You would need to know the perimeter of something if you were

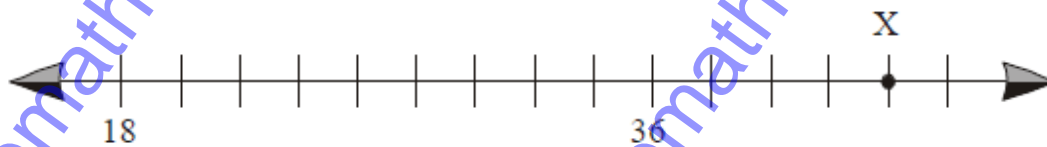
(a) Buying a box big enough to hold a clock

(b) Buying enough tiles to cover the floor of a room

(c) Buying enough wood to make a frame for a picture

(d) Buying a tablecloth big enough to cover a table

17.



Which best describes the location of point X?

(a) 58

(c) 44

(b) 40

(d) 54

18. What is the area of a rectangle that measures 5 meters wide and 6 meters long?

(a) 11 m^2

(c) 30 m^2

(b) 22 m^2

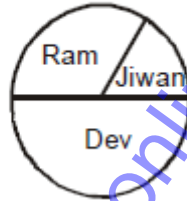
(d) 16 m^2

19. If n represents a number, which of these means the same as the expression $n + 6$?

- (A) Six more than a number
- (B) Six divided by a number
- (C) Six less than a number
- (D) Six times a number.

20. The following are the results from the class election. If 150 students voted, about how many votes did Ram receive?

Class President Results



- (a) 25
- (b) 38
- (c) 50
- (d) 75

21. The weekly milk order for the New Guest house includes 40 liters of low fat milk and 15 litres of chocolate milk. What is the ratio of the number of low fat litres to chocolate litres in the New Guest house's weekly milk order?

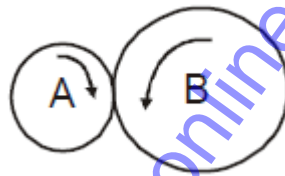
(a) 3 : 1

(c) 5 : 3

(b) 5 : 1

(d) 8 : 3

22. When wheel B turns 2 revolutions, wheel A turns 5 revolutions. When wheel A turns 40 revolutions, how many revolutions does wheel B turn?



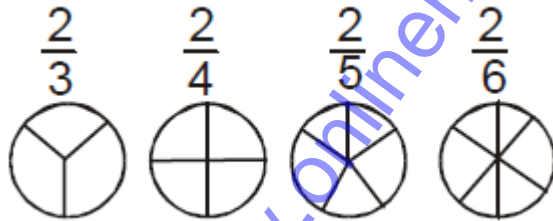
(a) 4

(c) 80

(b) 16

(d) 100

23. Marvin studied these pictures of fractions. What pattern might she correctly notice in the fractions?



- (A) Increasing the denominator increases the value of the fraction
- (B) If the denominator stays the same and the numerator increases, the fraction names as smaller amount
- (C) Increasing the denominator by 2 cuts the size of the fraction in half
- (D) If the numerator stays the same and the denominator increases, the fraction names a smaller amount.

24. A basket contains 300 mangoes, 75 mangoes were distributed among some students. Find the percentage of mangoes left in the basket.

(a) 50%

(c) 90%

(b) 75%

(d) 30%

25.

$$\triangle \triangle = \square \triangle \square, \triangle \square = \bigcirc \bigcirc, \triangle = 50$$

Using the diagram above, which of the following statements is true?

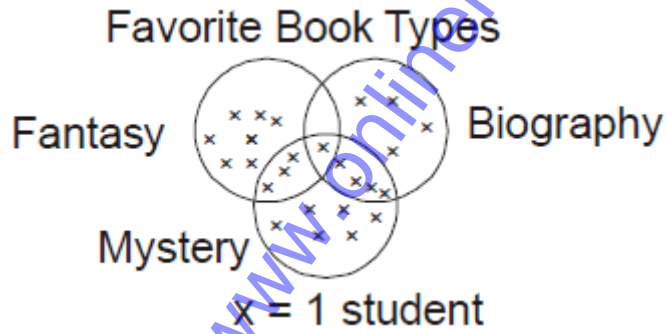
(a) $\bigcirc < \triangle$

(c) $\triangle < \square$

(b) $\square > \bigcirc$

(d) $\triangle < \bigcirc$

26. According to this diagram, how many students have more than one favorite type of book?



(a) 3

(c) 7

(b) 7

(d) 8

27. In Parul's garden, there are 25 rows of vegetables. She has five more rows of peppers than tomatoes and two fewer rows of cucumbers than tomatoes. If y represents the number of rows of tomatoes in the garden, which number sentence can be used to find how many rows of each vegetable were planted?

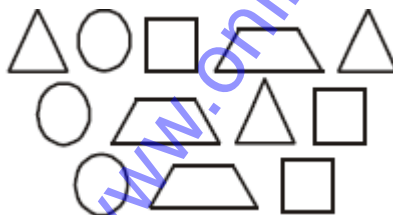
(a) $y + (y + 5) + (y + 2) + y = 25$

(b) $(y + 5) + y = 25$

(c) $(y + 5) + (y - 2) = 25$

(d) $(y + 5) + (y - 2) + y = 25$

28. What percent of these shapes are triangles?



(a) 0.25%

(c) 12%

(b) 3%

(d) 25%

29. Which of the following statements is true?

(a) $2 > -2$

(c) $-2 < -4$

(b) $2 < -4$

(d) $-4 > 4$

30. The five day forecast for the South Pole lists the low temperatures (in Fahrenheit) as -24° , -28° , -29° , -25° , and -30° . Which choice shows the temperatures in order from lowest to highest?

(a) -24° , -25° , -28° , -29° , -30°

(b) -30° , -28° , -29° , -25° , -24°

(c) -30° , -29° , -28° , -25° , -24°

(d) -30° , -29° , -28° , -24° , -25°

31. Which of the following fractions is closest to 0?

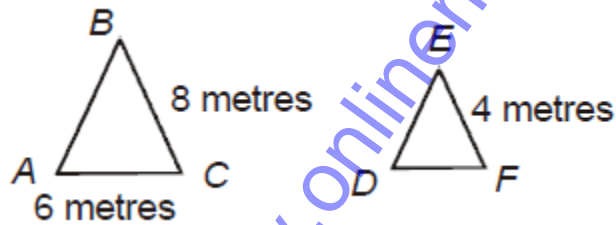
(a) $5/12$

(c) $5/6$

(b) $2/3$

(d) $3/4$

32. Triangles ABC is similar to DEF. What is the length of DF?



(a) 2 meters

(c) 5 meters

(b) 3 meters

(d) 10 meters

33. What is the value of the following expression? $3 + 3^2(4 + 3)$

(a) 38

(c) 45

(b) 42

(d) 66

34. Kathryn got $1\frac{1}{2}$ times as many problems right as she did wrong on her science test. If she answered 20 questions incorrectly, how many questions were on the test?

(a) 10

(c) 50

(b) 30

(d) 70

35. Sheena began her book by reading five pages the first day, eight pages the second day, eleven pages the third day, 14 pages the fourth day, and so on. How many pages will she read on the twelfth day if she continues this pattern?

(a) 35 pages

(c) 41 pages

(b) 38 pages

(d) 44 pages

36. Mohit is selling candy bars. He has chocolate bars, nut bars, and mint bars. If a customer buys two bars, and the bars are not of the same type, how many different combinations are possible?

(a) 3

(c) 9

(b) 6

(d) 12

37. Devin can type 28 words per minute. At this rate, how many words can Devin in 5.5 minutes?

(a) 154

(c) 159

(b) 157

(d) 162

38. At a school, there are 704 desks to place into 22 classrooms. If the same number of desks is placed in each classroom, how many desks will be in each room?

(a) 32

(c) 42

(b) 34

(d) 44

39. The students in a wood working class were building birdhouses. It takes four pieces of wood (each piece $\frac{3}{4}$ of foot long) to build a birdhouse. At most, how many birdhouses can be made from 4 feet of wood?

(a) 1

(c) 4

(b) 3

(d) 5

40. Wally loves animals. Today he brought home 3 dogs, 2 cats, and even 1 cow. However, Wally's mom says he can keep only 1 of each type of animal for a pet. How many different ways can Wally choose 1 dog, 1 cat, and 1 cow?

(a) 5

(c) 4

(b) 6

(d) 7

41. Ammie passed around a basket of strawberries to the girls at her party. Before the party she ate 5 strawberries and gave a friend 3. Eight girls arrived at the party. The first girl took a strawberry, the second girl took 3 strawberries, the third girl took 5 strawberries and so on. After the last girl took her strawberries, the basket was empty. How many strawberries were in the basket at the beginning?

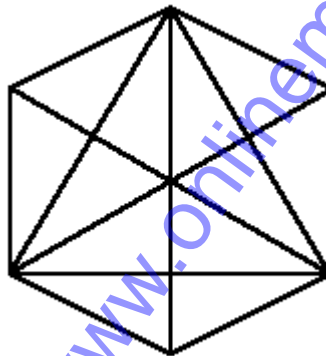
(a) 75

(c) 60

(b) 63

(d) 72

42. How many triangles are in this figure?



(a) 22

(c) 37

(b) 36

(d) 42

43. Dennis the Menace is thinking of two numbers. Their greatest common factor is 6. Their least common multiple is 36. One of the numbers is 12. What is the other number?

(a) 14

(c) 12

(b) 18

(d) 15

44. Dave gave Charlotte half of his pogs. Charlotte gave Johnnie half of the pogs she received from Dave. Johnnie kept 8 of those pogs and gave the remaining 10 to Dana. How many pogs did Dave give Charlotte?

(a) 36 pogs

(c) 56 pogs

(b) 44 pogs

(d) 58 pogs

45. Elmer Fudd decided to grow a garden so he could make salad. He wants to make it 10.1 m long and 4.2 m wide. However, in order to avoid Bugs Bunny from entering his garden he must make a fence surrounding the garden. He decides to make the fence 11.2 m long and 5.0 m wide. What is the area between the fence and the garden?

(a) 12.23 m^2

(c) 15.02 m^2

(b) 13.56 m^2

(d) 13.58 m^2

46. "Seven eighths of the number, added to 72, doubles the number," read Soren. "Is this a joke?" Larry looked at the paper and said, "No, it's the number of my locker." What is the number of Larry's locker?

(a) 40

(c) 35

(b) 64

(d) 90

47. "Seven eighths of the number, added to 72, doubles the number," read Soren. "Is this a joke?" Larry looked at the paper and said, "No, it's the number of my locker." What is the number of Larry's locker?

(a) 30 posts

(c) 16 posts

(b) 10 posts

(d) 20 posts

48. Kevin can mow a square lawn that is 30 yards on each side in 45 minutes. At the same rate, how long will it take him to mow a square lawn that is 60 yards on a side?

(a) 3 hours

(c) 30

(b) 10

(d) 20

49. A firefighter is standing on the middle rung of a ladder. She moved up 9 rungs. The smoke got worse, so she moved back down 13 rungs. When the smoke cleared, she went up 19 rungs to the top. How many rungs does the Ladder have?

(a) 50 rungs

(c) 31 rungs

(b) 25 rungs

(d) 28 rungs

50. Along a straight path from Raleigh ville to Urban town the Jones family passes through Sierra and Timeless. The distance from Raleigh ville to Urban town is 85 miles. From Raleigh ville to Timeless is 20 miles, and from Raleigh ville to Sierra is 48 miles. How far is it from Sierra to Urban town?

(a) 37 miles

(c) 26 miles

(b) 23 miles

(d) 34 miles

Answers:

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