

1. What is the sum of the first six positive odd numbers?

(a) 56

(c) 36

(b) 76

(d) 55

2. A rectangle has length 19 and width 14. What is its perimeter?

(a) 96

(c) 46

(b) 56

(d) 66

3. My favorite number is 1337. There is one special number that I can multiply by 7 to obtain 1337. What is this number?

(a) 151

(c) 161

(b) 131

(d) 191

4. A member of a track team can run a mile in five minutes. If she can maintain this speed for as long as she wants, how many hours would it take her to run 36 miles?

(a) 3 hours

(c) 1 hour

(b) 5 hours

(d) 2 hour

5. There are three whole numbers in a row, and their sum is 18. What is their product?

(a) 110

(c) 155

(b) 210

(d) 141

6. Find the greatest number which divided 63 and 80 leaving the remainders 3 and 5 respectively

(a) 15

(c) 16

(b) 18

(d) 10

7. Find the L.C.M of 63, 105, 147

(a) 605

(c) 2205

(b) 5000

(d) 2508

8. What is the least number which when divided by 15, 20, 25 leaves a remainder 10?

(a) 510

(c) 210

(b) 310

(d) 110

9. Subtract the following $546.925 - 52.68$

(a) 494.245

(c) 170.254

(b) 156.254

(d) 165.235

10. The iron steel mill produced 20.6 km, 25.4 km, and 16.72 km on five days .Find the total length of the wire produced?

(a) 82.62

(c) 42.52

(b) 50.81

(d) 62.72

11. Divide 0.168 by 1.2

(a) 0.25

(c) 0.14

(b) 0.20

(d) 0.45

12. Find $\frac{2}{3}$ of 75

(a) 50

(c) 60

(b) 20

(d) 36

13. Multiply the following $\frac{1}{2} \times \frac{5}{8} \times \frac{3}{7}$

(a) $\frac{36}{112}$

(c) $\frac{98}{112}$

(b) $\frac{15}{112}$

(d) $\frac{50}{112}$

14. A boy walks 9 kilometers in 3 hours. How many kilometers does he walk in one hour?

(a) 6

(c) 3

(b) 4

(d) 8

15. A fruit merchant bought mangoes in bulk. He sold $\frac{5}{8}$ of the mangoes. $\frac{1}{16}$ of the mangoes were spoiled. 300 mangoes remained with him. How many mangoes did he buy?

(a) 400

(c) 520

(b) 580

(d) 960

16. Two thirds of a tank can be filled in 18 minutes. How many minutes will it require to fill the whole tank?

(a) 27 minutes

(c) 29 minutes

(b) 28 minutes

(d) 22 minutes

17. Find the 40% of 160

(a) 52

(c) 64

(b) 48

(d) 33

18. In a test a girl scored 28 marks out of 40. What is her percentage of marks?

(a) 15%

(c) 80%

(b) 65%

(d) 70%

19. A gentleman gets a salary of \$2,800 per month. He saves 20% of his salary. Find his saving

(a) \$808

(c) \$289

(b) \$560

(d) \$506

20. In a class the number of boys and number of girls are in the ratio 5:4. Girls are 20 in number. How many boys are there?

(a) 30

(c) 25

(b) 26

(d) 10

21. There are 6 subjects for an examination. John got 82, 84, 85, 74, 80, 75 marks in the subjects. What is her average mark?

(a) 80

(c) 70

(b) 65

(d) 60

22. Find the amount in simple interest on \$250 at 12% in 2 years

(a) \$210

(c) \$230

(b) \$310

(d) \$280

23. A man takes 5 weeks 5 days to finish a work. He is paid \$75 per day for his work. How much would he earn?

(a) \$2180

(c) \$2600

(b) \$3000

(d) \$1600

24. A park is of length 120 meters and breadth 100 meters. What is its area?

(a) 220 m²

(c) 12000 m²

(b) 180 m²

(d) 120 m²

25. A garden contains 12 flower beds. Each bed is a rectangle of 8 m long and 5m broad. What is the total area of the flower beds?

(a) 280 m²

(c) 240 m²

(b) 480 m²

(d) 320 m²

26. Compute 1.55×21.4 .

(a) 23.17

(c) 33.17

(b) 28.17

(d) 55.17

27. What is 200% of 50% of 20% of 50?

(a) 20

(c) 30

(b) 10

(d) 40

28. What is the least positive number divisible by 4, 5, 6, and 9?

(a) 100

(c) 180

(b) 150

(d) 102

29. We have 5 numbers whose average is 11. Suppose we include 29 as a sixth number. What is the new average of these 6 numbers?

(a) 14

(c) 17

(b) 26

(d) 11

30. Mrs. Stone makes 20 telephone calls each day. How many telephone calls does she make in the month of January?

(a) 240

(c) 250

(b) 620

(d) 526

31. Every time Joey visits Monica and Chandler's apartment, he steals one more food item than he did the last time. If he visits once every day for a week, and steals 3 items the first day, how many food items does he steal in the week?

(a) 52

(c) 42

(b) 82

(d) 62

32. Find the product of the even multiples of 5 that are greater than 1 and less than 49.

(a) 340000

(c) 640000

(b) 240000

(d) 530000

33. Sixteen teams compete in a soccer tournament. Each game, one team wins and one team loses, and the losing team is eliminated. How many games must be played so that only one team remains undefeated?

(a) 20

(c) 15

(b) 14

(d) 10

34. Jen took pictures of exactly 40 birds. Exactly 30 of the birds were blue, and exactly 15 of the birds were male. How many of the birds were both blue and male?

(a) 5

(c) 15

(b) 20

(d) 10

35. Ian and Rob are having a barbecue. Ian goes to Shoprite and buys 62 ounces of meat. Rob goes to Path mark and buys 82 ounces of meat. In total, how many pounds of meat did Ian and Rob buy? (There are 16 ounces in one pound.)

(a) 9

(c) 10

(b) 11

(d) 12

36. Find the value of $(-5) \times (8)$

(a) -13

(c) 3

(b) -40

(d) 13

37. Christine can sing 120 notes every minute, while Rachel can sing 180 notes every minute. If Christine and Rachel begin singing at the same time, how long, in seconds, will it take for their combined note total to equal 1080 notes?

(a) 120

(c) 216

(b) 126

(d) 612

38. My initials are the first letter of my first name followed by the first letter of my last name. How many possible sets of initials could I have? (There are 26 letters.)

(a) 276

(c) 476

(b) 876

(d) 676

39. How many lines of symmetry does a regular dodecagon (a polygon with 12 sides) have?

(a) 75

(c) 15

(b) 12

(d) 55

40. The angle measures of acute triangle ABC are all positive whole numbers. If $m\angle A = 50$ degree what is the smallest possible measure, in degrees, of angle B?

(a) 21

(c) 31

(b) 11

(d) 41

41. Find the value of 3^4

(a) 12

(c) 7

(b) 9

(d) 81

42. Dan runs at a speed of 1.1_ miles per hour. How long, in hours, does it take Dan to run 2.75 times around a circle with radius 1 mile?

(a) 4

(c) 5

(b) 6

(d) 8

43. Jimbo, Jun, Jay, Jacob, Janine and Jenna are standing in a line with their backs to a wall. How many different orders could they be standing in so that Jenna and Jimbo are standing next to each other?

(a) 240

(c) 640

(b) 280

(d) 420

44. Kelly's favorite number is a positive integer less than 50. Both of the digits are odd. The tens digit is greater than the ones digit. What is Kelly's favorite number?

(a) 81

(c) 71

(b) 41

(d) 31

45. Rob swims two laps in a circular pool. He swims the first lap at a speed of 20 inches per second. He completes his second lap in 30 inches per second. What is his average speed of his swim, in inches per second?

(a) 51

(c) 24

(b) 26

(d) 42

46. How many integers from 1 to 1000 are multiples of 39 but not 13?

(a) 0

(c) 1

(b) 3

(d) 2

47. Hannah can build a house in twenty-four hours. Beth can build the same house in forty-eight hours. If Beth starts building the house and Hannah starts helping her a day later, in how many days will the house be built?

(a) $1/3$ days

(c) $3/4$ days

(b) $4/3$ days

(d) $1/4$ days

48. The area of circle O is 4 square meters. If the diameter of O is doubled, what is the area of O in square meters?

(a) 16 m^2

(c) 18 m^2

(b) 20 m^2

(d) 22 m^2

49. What is the value of 4^4 ?

(a) 256

(c) 8

(b) 16

(d) 32

50. There is a number. 2 is added to it. The result is multiplied by 3. We get 30. What is the number?

(a) 20

(c) 30

(b) 40

(d) 50

Answers

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