

1. Find the area of the rectangle of length 7cm and breadth 4 cm.

(a) 25

(c) 36

(b) 37

(d) 28

2. How many prime numbers are between 10 and 30?

(a) 5

(c) 6

(b) 8

(d) 10

3. A man bought car for \$750 and he sold it for \$ 900. What is his gain?

(a) \$ 160

(c) \$150

(b) \$130

(d) \$140

4. What is the value 4820 milligrams in grams?

(a) 4.82g

(c) 48.2g

(b) 482g

(d) 4.08g

5. Convert 4 hours 15 minutes in to minutes

(a) 150 minutes

(c) 240 minutes

(b) 210 minutes

(d) 255 minutes

6. Convert 360 minutes in to hours

(a) 5 hrs 20 min

(c) 2 hrs 50 min

(b) 6 hrs 20 min

(d) 6 hrs

7. A school sports started. It ended at 6.30 P.M. How long did the sports last?

(a) 2 hrs 10 min

(b) 3 hrs 10 min

(c) 2 hrs 15 min

(d) 3 hrs 15 min

8. The grocer buys milk from the dairy for 99 cent per gallon. If he buys 200 gallons of milk from the dairy and sells it for \$2.49 Per gallon, how much profit will the grocer make?

(a) \$300

(c) \$506

(b) \$250

(d) \$340

9. A Shop keeper paid each of his six employees \$94.67. How much money altogether did the shop keeper pay out to his employees?

(a) \$309.23

(c) \$568.02

(b) \$402.02

(d) \$700.54

10. Thursday is Cassie's birthday. She wants to bring cookies for all of her classmates and her teacher. Her homeroom has a total of 18 students, her math class has 12 students and her music class has 25 students. Each class room has 1 teacher. How many cookies does Cassie need to bring to school on her birthday?

(a) 49

(c) 58

(b) 64

(d) 36

11. Leo likes to collect coins. He has 103 U.S coins and 26 foreign coins. How many more U.S coins does Leo have than foreign coins?

(a) 66

(c) 56

(b) 77

(d) 87

12. Daniel has 27 books about cars. He donated 13 out of them to the school book drive. How many books about cars does Daniel have left?

(a) 14

(c) 18

(b) 12

(d) 16

13. Kevin read 48 books last year. What is the average number of books that Kevin read each month?

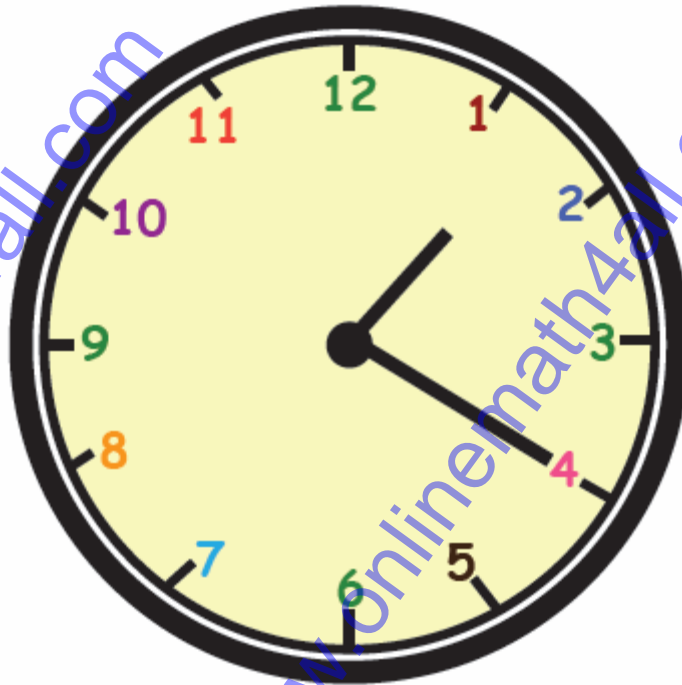
(a) 3

(c) 4

(b) 6

(d) 8

14. What time does the clock show?



(a) 1:00

(c) 1:17

(b) 1:20

(d) 1:15

15. Write the decimal form of the following  $\frac{9}{100}$







(a) 0.19

(c) 0.009

(b) 0.9

(d) 0.09

16. The following table is a representation of the items Jason, Michelle, Sofia and Wills posses.

						
Jason	3	2	5	10	2	3
Michelle	4	3	1	7	2	2
Sofia	10	5	4	3	2	1
Wills	9	6	2	1	1	2

How many various kind of object does Sofia have totally?

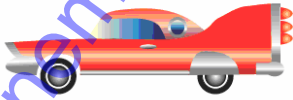
(a) 25

(c) 23

(b) 21

(d) 20

17. What is in the middle position?



Car



Chef



House

(a) Car

(c) Chef

(b) House

(d) None of these

18. How many \$0.30 packs of gum can I purchase with \$3.00?

(a) 10

(c) 12

(b) 14

(d) 22

19. A clock chimes once at 1:00, twice at 2:00, three times at 3:00, and so on. Starting at 12:30, how many times will the clock chime in 6 hours?

(a) 58

(c) 28

(b) 56

(d) 21

20. Scott bought a record collection for \$10, sold it for \$15, bought it back for \$20, and finally sold it for \$25. How much money did Scott make or lose?

(a) 10

(c) 20

(b) 30

(d) 40

21. The Bergen County Academies' field measures 13 meters by 17 meters. What is the total area?

(a) 251

(c) 231

(b) 221

(d) 236

22. Rachel likes to collect gemstones. Her favorite gems are peridots. Out of her 147 gems, 74 are peridots. How many gems does she have that are not peridots?

(a) 70

(c) 72

(b) 71

(d) 73



23. Mark writes three math questions Monday, five math questions on Tuesday, seven Math questions on Wednesday, and so on. How many questions will he have written, in total, at the end of Sunday?

(a) 53

(c) 63

(b) 50

(d) 49

24. If Jordan eats three pieces of candy every two days and Elen eats four pieces of candy every three days, how many pieces of candy will both of them have eaten in twelve days?

(a) 90

(c) 34

(b) 14

(d) 60

25. How many hours are there in  $3\frac{1}{4}$  days?

(a) 78

(c) 72

(b) 65

(d) 56

26. Every time Ethan enters Mr. Holbrook's room, he drinks three cans of soda. If Ethan enters Mr. Holbrook's room three times a day, how many cans of soda will he have had after five days?

(a) 35

(c) 45

(b) 64

(d) 65

27. The wages of four laborers working in a company are \$45, \$30, \$62 and \$55 respectively. What will be the average wage of the laborers?

(a) \$58

(c) \$48

(b) \$77

(d) \$33

28. The sum of two odd numbers is:

(a) an odd number

(c) an even number

(b) often an odd number

(d) often an even number

29. The multiplication of two prime numbers will be:

(a) Prime number

(c) an even number

(b) an odd number

(d) None of these

30. A trader bought an article of \$530 and sold it for \$583. Find out the profit percent?

(a) 53%

(c) 5.3%

(b) 9%

(d) 10 %

31. Find the sum of the numbers from 1 to 15 inclusive.

(a) 148

(c) 120

(b) 128

(d) 136

32. It takes 20 of Beowulf's men to beat a dragon in battle. If Beowulf has 170 men, how many dragons could they beat in battle?

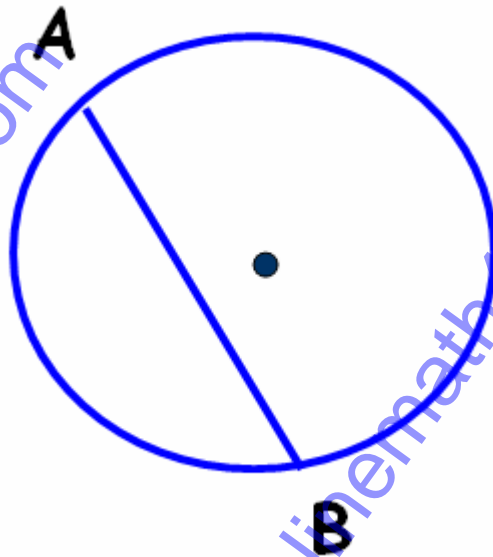
(a) 8

(c) 9

(b) 10

(d) 11

33. What is AB in the below picture?



(a) Radius

(c) Diameter

(b) Chord

(d) None of these

34. How many integers equal their own squares?

(a) 3

(c) 2

(b) 4

(d) 7

35. At the Bergen County Academies, a club consists of 10 students. A subcommittee must be formed by choosing 3 students from this club. How many possible subcommittees can be formed?

(a) 120

(c) 160

(b) 125

(d) 190

36. At age 8, Christine decided to start saving money from her allowance. She saved \$2 a month the first year, \$3 a month the second year, \$4 a month the third year, etc. She turned 18 today. How much money has Christine saved so far?

(a) 281

(c) 780

(b) 351

(d) 991

37. Robert has two watches, one which loses 6 seconds every 24 hours and one which gains 1 second per hour. He sets both of them to the correct time at 6: 00 p.m. How many hours will pass before the difference between the times shown on both watches is 1 minute?

(a) 48

(c) 42

(b) 46

(d) 45

38. When a number is divided by 16, the remainder is 5. What is the remainder when the same number is divided by 4?

(a) 1

(c) 3

(b) 2

(d) 9

39. Two passenger trains traveling in opposite directions meet and pass each other. Each train is  $\frac{1}{24}$  miles long and is traveling at 50 miles per hour. How many seconds after the front parts of the trains meet will their rear parts pass each other?

(a) 7

(c) 3

(b) 5

(d) 10

40. The chickens, ducks and pigs in Farmer Lee's barn have the same number of heads and have a total of 72 legs. How many pigs are in the barn?

(a) 8

(c) 5

(b) 6

(d) 9

41. Find the sum of the counting numbers from 1 to 25 inclusive.

(a) 233

(c) 216

(b) 212

(d) 325

42. Three numbers are in the ratio of 4:5:6. The sum of the smallest and the largest number is equal to the sum of the first number and 48. What will be the value of the smallest number?

(a) 32

(c) 45

(b) 16

(d) 28

43. If a number is divided by 144, it leaves 90 as remainder. What will be the remainder if that number is divided by 9?

(a) 4

(c) 2

(b) 7

(d) 0

44. The average of first five multiples of seven will be?

(a) 30

(c) 26

(b) 21

(d) 25

45. What is the value of  $(-9) \times (-2) - 5$ ?

(a) 10

(c) 12

(b) 11

(d) 13



46. If the sum of 5 even numbers in a row is 320, what is the smallest of the five even numbers?

(a) 60

(c) 96

(b) 69

(d) 24

47. Edward's Bike Shop has a total of 32 bicycles and tricycles for rent. He checks all 74 wheels at the beginning of the season. How many tricycles does Edward have?

(a) 16

(c) 18

(b) 10

(d) 19

48. A shop keeper gets a commission of 15% on the printed price of an article. If the printed price of that article is \$3.25 and the shop keeper has sold 400 such articles, how much commission will he get?

(a) 164

(c) 184

(b) 195

(d) 149

49. If 13 buses can carry 725 passengers, how many passengers can be carried in 25 buses?

(a) 1700

(c) 1400

(b) 1600

(d) 1500

50. Find the circumference of the circle whose radius is 7 cm

(a)  $16\pi$

(c)  $49\pi$

(b)  $14\pi$

(d)  $17\pi$

Answers

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