A number when divided by the sum of 625 and 515 gives a quotient that is 5 times the difference between 625 and 515 and remainder as zero. What is the number?

a. 632500

b. 627000

c. 617500

d. 642000

Correct Option is:

x/(625+515)=5(625-515)

x/1140=5\*110

x=550\*1140

x=627000

11.What is the smallest number that should be divided by 10500 to make it a perfect cube?

a. 4

b. 84

c. 12

d. 21

Correct Option is:

10500

5 2100

5 420

5 84

2 42

2 21

3 7

10500 = 5\*5\*5\*2\*2\*3\*7

84

12.If an integer ‗K‘ is divisible by 2, 5 and 13.What is the next largest number that is divisible by all the 3 given numbers?

a. 2K

b. K + 13

c. 2K + 13

d. 2K + 65

e. K + 130

Correct Option is:

LCM = 2,5,13 = 130

K+130

80+80=160

160+80=240

240+80=320

2413.For the smallest number that should be multiplied with 54000 to make it a perfect cube?

a. 4

b. 27

c. 5

d. 3

Correct Option is:

54000

2 27000

3 9000

3 3000

3 1000

5 200

5 40

5 8

2 4

2 2

54000 = 2\*3\*3\*3\*5\*5\*5\*2\*2\*2

2\*2=4

14.What is the smallest square number, which is divisible by 2,4,5,6 and 9 ?

a. 200

b. 90

c. 180

d. 900

Correct Option is:

LCM (2,4,5,6,9) = 180

180+180=360

360+180=540

540+180=720

720+180=900

15.What is the least number which should be added to 1330 to make it a perfect square?

a. 56

b. 1

c. 40

d. 30

e. 39

Correct Option is:

1330+40

900

1330+39

1369

16.Square of two more than a two digit number is multiplied and divided by 2 and 5 respectively. If twice the result is equal to 500 then find the number?

a. 45

b. 23

c. 87

d. 47

Correct Option is:

2(2\*(X+2)^2/5)=500

x

17.Find the sum of the first 50 common terms of 12, 16, 20,.... and 18, 24, 30,....

a. 15900

b. 12700

c. 19990

d. 18400

Correct Option is:

12,16,20,24,28,32,36,40…..

18,24,30,36,42,48…….

24,36,48…..

Sum = n/2[2a+(n-1)d]

Sum=50/2[2\*24+(49)12]

15900

18.The number 673 and 865 is divisible by which of the following leaving a remainder 1?

a. 1

b. 2

c. 3

d. 4

e. 2,3,4

Correct Option is:

673%2=1 865%2=1

19.Find the missing number in 25, 38, \_, 64, -27, 90

a. -1

b. 51

c. 39

d. -32

Correct Option is:

25,38,-1,64,-27,90

20.4522 is not divisible by

a. 7

b. 17

c. 19

d. 21

Correct Option is:

21.Which of the following numbers is not divisible by 11?

26a. 40,12,503

b. 53,33,064

c. 54,32,105

d. 64,31,040

Correct Option is:

4012503 = (4+1+5+3)-(0+2+0)=>13-2=11

(5+3+0+4)=12-12=0

22.A number is to be multiplied by the fraction 4/5. But Samir, by mistake, multiplied it by 5/4 and obtained the number 81 more than the correct one. What was the original

number?

a. 200

b. 120

c. 180

d. 240

Correct Option is:

X

5/4x = 4/5x+81

5/4x-4/5x=81

X=

23.What is the number that should be subtracted from 682 to make it a perfect square?

a. 2

b. 4

c. 6

d. 8

Correct Option is:

24.What is the least number by which 16,800 must be divided to get a number perfect square

a. 21

b. 42

c. 24

d. 40

Correct Option is:

16800

2 8400

2 4200

2 2100

3 700

5 140

7 20

5 4

2 2

16800 – 2\*2\*2\*3\*5\*7\*5\*2\*2

7\*3\*2=42

25.A number was divided by 8,7,6,5, successively and gave the remainder 1,2,3,4. The

number is:

27a. 3208

b. 3209

c. 3210

d. 3334

Correct Option is:

3208

8|208

26 – 0

8|209

26 = 1

51 7 & 3 rem 2&1

7|51 3|7

7 = 2 2 = 1

26.A number becomes a perfect square when we subtract 1 from it. Which of the following cannot be the last digit of that number.

a. 2 – 1 = 1

b. 4 – 1 = 3

c. 5 – 1 = 4

d. 0

Correct Option is:

2,3,7,8 – not perfect square

27.4.28 and -3.28 are two numbers on a real number line. if one is added to both the numbers, then which of the following is true?

a. Distance between the two new numbers is 2 units more than the distance between 4.28 and -3.28

b. Distance between the two new numbers is 2 units less than the distance

between 4.28 and -3.28

c. Distance between the two new numbers is 2 units equal to the distance

between 4.28 and -3.28

d. None

Correct Option is:

4 -3 - 6

5 -2 - 6

28.528/7 change into mixed fraction

a. 78 3/7

b. 76 4/7

c. 75 3/7

d. 34 5/7

28 Correct Option is:

78 3/7

(75\*7+3)/7

29.1+2^2+3^3+4^4+5^5+6^6 =?. Find unit digit

a. 9

b. 4

c. 1

d. 5

e. 0

Correct Option is:

1+4+7+6+5+6=29

4^1=4 9^1=9

4^2=6 9^2=1

4^3=4 9^3=9

4^4=6 9^4=1