NCERT Solutions For Class 6 Maths Playing With Numbers Exercise 3.2

Q1. What is the sum of any two:

(a)Odd numbe

(b)Even numbe

Ans:

(a) The sum of any two odd numbers is an even number.

Example: $1 + 3 = 4$, $3 + 5 = 8$

(b) The sum of any two even numbers is an even number.

Example: $2 + 4 = 6$, $6 + 8 = 14$

Q2. State whether the following statements are true or false:

(a)The sum of three odd numbers is even.

(b)The sum of two odd numbers and one even number is even.

(c)The product of three odd numbers is odd.

(d)If an even number is divided by 2, the quotient is always odd.

(e)All prime numbers are odd.

(f)Prime numbers do not have any facto

(g)Sum of two prime numbers is always even.

(h)2 is the only even prime number.

(i)All even numbers are composite numbe

(j)The product of two even numbers is always even.

Ans:
(a) False, (b) True, (c) True, (d) False, (e) False, (f) False,(g) False, (h) True, (i) False, (j) True

Q3. The numbers 13 and 31 are prime numbe Both these numbers have same digits 1 and 3. Find such pairs of prime numbers up to 100.
Ans: 17 and 71; 37 and 73; 79 and 97

Q4. Write down separately the prime and composite numbers less than 20.
Ans:
Prime numbers: 2, 3, 5, 7, 11, 13, 17, 19

Composite numbers: 4, 6, 8, 9, 10, 12, 14, 15, 16, 18

Q5. What is the greatest prime number between 1 and 10?
Ans: The greatest prime number between 1 and 10 is '7'.

Q6. Express the following as the sum of two odd numbers:
(a) 44

(b) 36

(c) 24

(d) 18

Ans:(a) 3 + 41 = 44, (b) 5 + 31 = 36, (c) 7 + 17 = 24, (d) 7 + 11 = 18

Q7. Give three pairs of prime numbers whose difference is 2.
[Remark: Two prime numbers whose difference is 2 are called twin primes.]

Ans:
3 and 5;

5 and 7;

11 and 13

Q8. Which of the following numbers are prime:
(a) 23

(b) 51

(c) 37

(d) 26

Ans: (a) 23 and (c) 37 are prime numbe

Q9. Write seven consecutive composite numbers less than 100 so that there is no prime number between them.
Ans: 90, 91, 92, 93, 94, 95, 96

Q10. Express each of the following numbers as the sum of three odd primes:
(a) 21

(b) 31

(c) 53

(d) 61

Ans: (a) 21 = 3 + 7 + 11, (b) 31 = 3 + 11 + 17 , (c) 53 = 13 + 17 + 23, (d) 61 = 19 + 29 + 13

Q11. Write five pairs of prime numbers less than 20 whose sum is divisible by 5.
[Hint: 3 + 7 = 10]

Ans: 2 + 3 = 5;, 7 + 13 = 20;, 3 + 17 = 20;, 2 + 13 = 15;, 5 + 5 = 10

Q12. Fill in the blanks:
(a)A number which has only two factors is called a _____.

(b)A number which has more than two factors is called a _____.

(c)1 neither _____ nor _____.

(d)The smallest prime number is _____.

(e)The smallest composite number is _____.

(f)The smallest even number is _____.

Ans: (a) Prime number, (b) Composite number, (c) Prime number and composite number, (d) 2, (e) 4, (f) 2

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