

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

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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