

BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

CLASS:-VII

SUBJECT :-MATHEMATICS (041)

Assignment

Ch-4 Simple Equations + Ch -5 Lines and Angles

Session -2023-24

MCQ

Q1. 6 added to twice a number gives 10 .Equation for given statement is:

- a) $2x+6=10$ b) $3x+6=10$ c) $3x+10 =6$ d) $2x-10 =6$

Q2. Find the value of p in the given equation $6p+12 = -12$:

- a) -4 b) 6 c) 4 d) -2

Q3. Which of the following is not the property of adjacent angle ?

- a)They have a common vertex. b) They have common arm.
c)Both angles are always same d)Non common arms are on either side of common arm.

Assertion -Reasoning

Q4. Assertion: If a transversal intersects two parallel lines, then the interior angles on the same side of the transversal are supplementary angles.

Reason: The sum of measures of two supplementary angles is 180° .

- a) Both Assertion and Reason are correct and reason is the correct explanation for assertion.
b) Both Assertion and Reason are correct and reason is not the correct explanation for Assertion.
c)Assertion is true but the reason is false.
d) Both Assertion and reason are false.

SUBJECTIVE QUESTIONS

Q5.The sum of three consecutive integers is 204.Find the integers.

Q6.a)An angle is 10° less than its supplementary. Find the angles.

- b)If the ratio of two complementary angles is 2:3 .Find the angles.

Q7. Three less than half the age of father is the daughter's age. If the daughter is 22 years old. Find the father's age

Q8. CASE STUDY:

There is a lot of gender inequality across almost all the countries of the world. Ratio of girls as compared to boys is decreasing. Due to this, United Nations have given SDG -5 for Gender Equality to be followed by everyone in the world. Its mission is to empower women and girls. In a class of 49 students in a government school, number of girls are only $\frac{2}{5}$ of the boys. On the basis of above information answer the following:

- a) Set up an equation for the above situation.
- b) How many boys are there in the class?
- c) Write the number of girls in the class.