



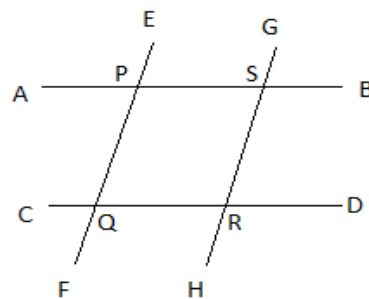
Home Assessment, 2020
class-6

Subject- Mathematics

Time- 1 Hour 30 Minutes

Total Marks- 50

1. There are 159 mangoes, 227 bananas and 401 litchis in three different baskets.
- a) Determine the factors 159 and then separate the prime factors. 2
 - b) If 9 mangoes, 7 bananas and 1 litchi get rotten, find out the L.C.M of the remaining fruits by Euclid's method. 4
 - c) What is the highest number of boys among whom the fruits can be equally distributed with 3 mangoes, 6 bananas and 11 litchis left? 4
2. If the price of a notebook is Tk. a , the price of a pen is Tk. b and the price of a pencil is Tk. c , then –
- a) What is the total price of three pencils and two pens? 2
 - b) What is the meaning of $9a + 10b$? 4
 - c) What will be the total price of 4 pens, 7 notebooks and 2 pencils? 4
- 3.



In the figure, $AB \parallel CD$ and $EF \parallel GH$.

- a) Write down the name of the quadrilateral PQRS with reasons. 2
- b) Taking four angles from the figure, find their supplementary angles and alternate angles. 4
- c) Prove that, $\angle APE = \angle DRH$. 4

4. Write the correct answer in your answer script.

1 × 20 = 20

- a) How many prime numbers between 1 to 100?
- b) Determine H.C.F of 28, 48 and 72.
- c) Find the L.C.M of 4 , 6 and 8.
- d) Write the inverse ratio of 9:16.
- e) Fill in the gaps: $2:3 = 8:$
- f) What is the meaning of L.C.M ?
- g) $\frac{7}{13} + \frac{2}{13} = ?$
- h) $2 - 1\frac{2}{5} = ?$
- i) What is the smallest prime number?
- j) Write an equivalent ratio of 3:7.
- k) Find the coefficient of: $-xyz$
- l) How many terms are there in the expression:
 $2x + 5y \times 2x - 3y \div 2x - 6y$
- m) Write the algebraic expression: **Sum of six times of a and four times of c?**
- n) What is the index of **a** in **$4a^2$** ?
- o) How much is the vertically opposite of the angle 40° ?
- p) What is the summation of three angles of a triangle?
- q) How many surfaces does a brick have?
- r) What is the median of the numbers 6, 7, 9, 2, 4?
- s) What is the mean of 7,2,4,6,11?
- t) How much is the supplementary angel of 80° ?