



Section I:

1) Priya makes 12 gulab jamuns. In how many different ways can she pack it so that the number of gulab jamuns in each packet is the same? Draw out all these possible combinations.

Example: 1 packet containing 12 gulab jamuns.

(i) Write all the factors of 12

(ii) How many factors does 12 have?





Section I:

2) Peter bakes 18 cupcakes. In how many different ways can he pack it so that the number of cupcakes in each packet is the same?

- (i) Write all the factors of 18
- (ii) How many factors does 18 have?





Section I:

3) A gardener has 8 seeds. In how many different ways can he plant them in pots so that the number of seeds in each pot is the same?

- (i) Write all the factors of 8
- (ii) How many factors does 8 have?





Section II:

1) Priya makes 24 gulab jamuns. In how many different ways can she pack it so that the number of gulab jamuns in each packet is the same?

Example: 1 packet containing 24 gulab jamuns.

- (i) Write all the factors of 24
- (ii) How many factors does 24 have?

2) Peter bakes 40 cupcakes. In how many different ways can he pack it so that the number of cupcakes in each packet is the same?

- (i) Write all the factors of 40
- (ii) How many factors does 40 have?

3) A gardener has 60 seeds. In how many different ways can he plant them in pots so that the number of seeds in each pot is the same?

- (i) Write all the factors of 60
- (ii) How many factors does 60 have?

4) In a shop there are 100 roses. In how many different ways can they be arranged in bouquets so that the number of roses in each bouquet is the same.

- (i) Write all the factors of 100
- (ii) How many factors does 100 have?

5) Seetha has 250 ml of milk. In how many different ways can she measure the milk using measuring cylinders so that the quantity of milk measured each time is the same.

- (i) Write all the factors of 250
- (ii) How many factors does 250 have?



Section III:

[Recall: Multiple of LCM is also a multiple.]

[For Questions 1 and 2, use the number line given in the appendix.]

1) A baby frog jumps 1 metres, a mother frog jumps 42metres and a father frog jumps 3 metres at a time.

- (i) After how many metres will they first meet?
- (ii) When will they meet next?
- (iii) Is this number a multiple or factor of 1, 2 and 3?
- (iv) Which is the smallest common multiple of 1, 2 and 3?

2) Sara jumps 1 step at a time, Rob jumps 2 steps and Rahul jumps 5 steps at a time.

- (i) After how many steps will they first meet?
- (ii) When will they meet next?
- (iii) Is this number a multiple or factor of 1, 2 and 5?
- (iv) Which is the smallest common multiple of 1, 2 and 5?

3) There is a Maths test every 2nd day, Science test every 4th day and SST test every 7th day.

- (i) After how many days will the test of all the three subjects be together?
- (ii) Next when will the test of all these three subjects be together?
- (iii) In a month how many times will the test of these three subjects be together?
- (iv) How many common multiples of 2, 4 and 7 are less than 30?

4) Shyam eats Idli for breakfast every 3rd day, bread every 4th day and dosa every 5th day.

- (i) After how many days will he eats all the 3 items together?
- (ii) Next when will he eat all the 3 items together?
- (iii) In a month how many times will he eat all the 3 items together?
- (iv) What is the smallest common multiple of 3, 4 and 5?



Section IV:

1) Shyamu works at Anand Sweets. He has to order gulab jamuns from the head office. He has to pack them in boxes of 2, 4 or 5. Find the least number of gulab jamuns he should order. Draw three pictures showing the packing in the three types of boxes.





Section IV:

2) Robert works at Theobroma. He has to order cup cakes from the cloud kitchen.
He has to pack them in boxes of 2,3 or 4.
Find the least number of cup cakes he should order.





Section IV:

3) Sally works at a florist shop. She needs to order lilies. She will have to make bouquets with 3, 6 or 8 lilies. How many lilies should she order so that she does not have an extra lilies left over.

Draw the bouquets in each type of arrangement (with 3 or 6 or 8 lilies).





Section V:

- 1) Find the least number exactly divisible by 20, 25 and 45.
- 2) Find the least number exactly divisible by 42, 49 and 63.
- 3) Find the least number exactly divisible by 40, 60 and 70.





Section VI:

1) Shyamu works at Anand Sweets. He has to order gulab jamuns from the head office. He has to pack them in boxes of 2, 4 or 5. Find the least number of gulab jamuns he should order so that he can have one extra for himself.

Draw three pictures showing the packing in the three types of boxes.





Section VI:

2) Robert works at a Theobroma cafe. He has to order cup cakes from the central cloud kitchen. He has to pack them in boxes of 2, 3 or 4. Find the least number of cup cakes he should order so that he has one extra cup cake for himself.

Draw the arrangement possible for 2, 3 and 4 cup cake size boxes.





Section VI:

3) Sally works at a florist shop. She needs to order lilies. She will have to make bouquets with 3, 6 or 8 lilies. How many lilies should she order so that she has two extra lilies left over. Draw the bouquets in each type of arrangement (with 3 or 6 or 8 lilies).





Section VII:

- 1) Find the least number which when divided by 20, 25 and 45 leaves a remainder 5.
- 2) Find the least number exactly which when divided by 42, 49 and 63 leaves a remainder 3.
- 3) Find the least number exactly which when divided by 40, 60 and 70 leaves a remainder 8.

Section VIII Multiples

- 1) (i) Largest 2 digit multiple of 6, 12 and 15
(ii) Largest 3 digit multiple of 6, 12 and 15
(iii) Largest 4 digit multiple of 6, 12 and 15
- 2) (i) Largest 2 digit multiple of 4, 9 and 12
(ii) Largest 3 digit multiple of 4, 9 and 12
(iii) Largest 4 digit multiple of 4, 9 and 12
- 3) (i) Largest 2 digit multiple of 4, 5 and 11
(ii) Largest 3 digit multiple of 4, 5 and 11
(iii) Largest 4 digit multiple of 4, 5 and 11

Section IX

Ques 1:

- A) Find all the numbers which divides 17 and leaves remainder 2.
- B) Find all the numbers which divides 21 and leaves remainder 1.
- C) Find all the numbers which divides 13 and leaves remainder 3.
- D) Find the largest number which divides 17, 21 and 13 leaving remainders 2, 1 and 3.

Ques 2:

- A) Find all the numbers which divides 15 and leaves remainder 1.
- B) Find all the numbers which divides 23 and leaves remainder 2.
- C) Find all the numbers which divides 31 and leaves remainder 3.
- D) Find the largest number which divides 15, 23 and 31 leaving remainders 1, 2 and 3.



Section X:

- 1) Find the greatest number which divides 92, 132, 221 and leaves a remainder of 2, 6 and 5 respectively
- 2) Find the greatest number which divides 78, 126, 232 and leaves a remainder of 3, 6 and 7 respectively
- 3) Find the greatest number which divides 218, 328, 401 and leaves a remainder of 2, 4 and 5 respectively.