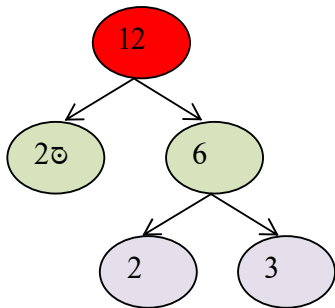


Alternate Academic Calendar 2021- 22

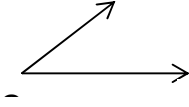
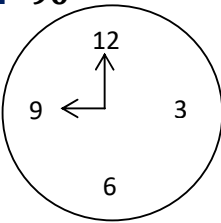
Class:-5

Subject: Mathematics

Month: September

Sl. No	Month/ Week	Important learning outcome	Learning activities	Evaluation
01	September – 21 1 <sup>st</sup> week	Meaning of factorization and problems on factorization  Constructing factorization tree of a given number.	<p><b>Activity : 01</b> Let us develop the concept that when two or more numbers are multiplied, product is obtained and the numbers which are multiplied are called factors. <b>Example 01 :- <math>2 \times 3 = 6</math></b> Factors of 6 are 2 and 3 <b>Example: 02</b> Find out the factors of the following. 1) 8    2) 12    3) 24 <b>Example: 03</b> Let us develop the concept of multiple that, when a number is completely divisible by another number. <b>Example 02 :- <math>5 \times 6 = 30</math></b> 5 and 6 are the multiples of 30. <b>Activity : 04</b> Write the multiples of the following 1) 2    2) 4    3) 6    3) 10 <b>Activity : 05</b> Let us understand the construction of factorization tree.</p>  <p>Here 2, 3, 6 are factors of 12.</p> <p><b>Activity: 06</b> Construct factorization tree of the following: 1) 20 2) 14 3) 18</p>	Work sheet: <b>01</b> <b>Solve problems of</b> Exercise 4.1. 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> , main question.  Work sheet: <b>02</b>  Solve, Exercise 4.1 1, 2, 3, 4, 5, 6 Questions.  Work sheet : <b>03</b>  Solve, problems of 10 and 11. main questions of exercise 4.1.



Sl.no	Month/week	Important learning points	Learning activities	Evaluation
03	September – 21 3 <sup>rd</sup> week	<p>Understands equivalent fraction.</p> <p>Understands the meaning of angles.</p>	<p><b>Activity : 04</b> Make them understand that, a fraction which represents same value are called equivalent fractions.</p> <p><b>Activity: 04</b> <math>\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}</math></p> <p><b>Activity: 05</b> Write equivalent fractions of the following fractions. <math>\frac{1}{3}, \frac{4}{5}, \frac{6}{7}</math></p> <p><b>Activity: 01</b> Make them understand that, a figure formed by two rays meeting at a common fixed point is called angle.</p> <p><b>Model 01 :-</b> O=fixed point. → rays → OA OB</p> 	<p>Solve, problem of exercise 5.2 and 5.3</p> <p>Solve, problem of exercise 6.1</p>
04	September – 21 4 <sup>th</sup> week	<p>Understands types of angles.</p> <p>Understands angle between needles in clock.</p>	<p><b>Activity: 02</b> <b>Acute angle:</b> An angle between 0° and 90° is called acute angle.</p> <p><b>Right angle :</b> An angle which is equal to 90° is called right angle.</p> <p><b>Obtuse angle :</b> An angle which is more than 90° and less than 180° is called obtuse angle.</p> <p><b>Activity : 03</b> Classify the following into acute angle, right angle and obtuse angle. 45°, 90°, 35°, 125°, 165°, 75°</p> <p><b>Activity : 04</b> Make them understand, to tell an angle between the needles in clock and name them.</p> <p><b>Model 02 :- 90°</b></p> 	<p>Work sheet : 08</p> <p>Solve, problem of exercise 6.2</p> <p>Activity:09</p> <p>Solve, problem on clock of exercise 6.2</p>

## WORKSHEET - 1

class:-5work sheet:01Month:-September

**Find the factors for following numbers:-**

**Model problem: -8=1 X 8, 8 X 1,4 X 2, 2 X 4, 2 X 2 X 2**

**∴Factors of 8 are1, 2, 4and8**

1) 12=\_\_\_\_\_

\_\_\_\_\_

2) 24=\_\_\_\_\_

\_\_\_\_\_

3) 18=\_\_\_\_\_

\_\_\_\_\_

4) 30=\_\_\_\_\_

\_\_\_\_\_

5) 45=\_\_\_\_\_

\_\_\_\_\_

6) 20=\_\_\_\_\_

\_\_\_\_\_

7) 36=\_\_\_\_\_

\_\_\_\_\_

8) 16=\_\_\_\_\_

\_\_\_\_\_

9) 4=\_\_\_\_\_

\_\_\_\_\_

10) 9=\_\_\_\_\_

\_\_\_\_\_

11) 15=\_\_\_\_\_

\_\_\_\_\_

12) 25=\_\_\_\_\_

\_\_\_\_\_

**13) 27 = \_\_\_\_\_**

\_\_\_\_\_

## WORKSHEET - 2

Class :-5Month:- September

**Find the multiples for following numbers:-**

**Model:-Multiples of 2**

2, 4, 6, 8, 10, 12, 14, 16, 18, 20. . . . .

1) Multiples of 4

---

2) Multiples of 6

---

3) Multiples of 5

---

4) Multiples of 8

---

5) Multiples of 12

---

6) Multiples of 7

---

7) Multiples of 13

---

8) Multiples of 10

---

9) Multiples of 11

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10) Multiples of 3

---

11) Multiples of 9

---

12) Multiples of 15

---

13) Multiples of 14

---

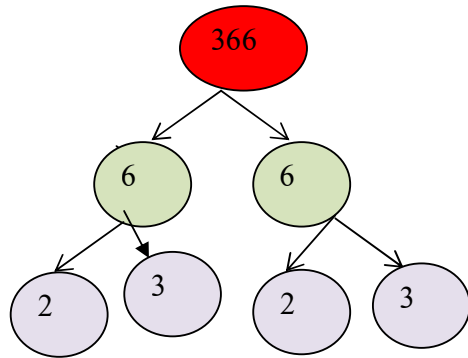
class :- 5

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**WORKSHEET - 1**

**Construct a factorization tree for the following number:-**

**Model:-36**



1) 24=

2) 56=

3) 48=

4) 30=

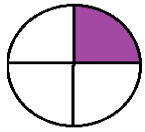
# WORKSHEET - 3

Class :- 5

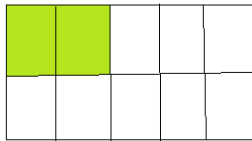
Month :- September

In the below given figures, what portion of fraction is shaded ?

Model :-

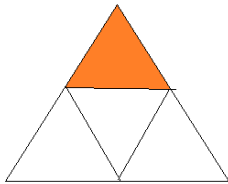


$= \frac{1}{4}$  portion of fraction is shaded.



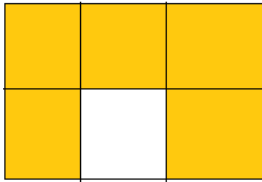
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1)



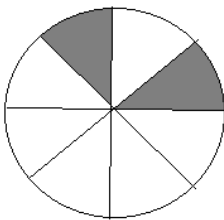
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2)



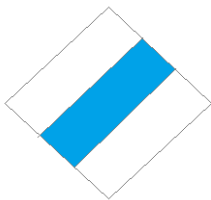
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3)



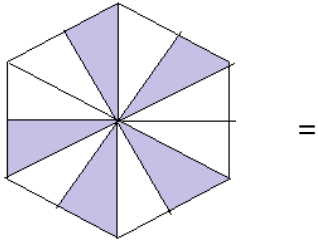
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4)



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5)



class :- 5

**WORKSHEET - 4**

**Identify the numerator and denominator in the below figures:-**

**Model:-**  $\frac{3}{4}$ , 3 numerator, 4 denominator .

1)  $\frac{2}{5} =$

2)  $\frac{1}{5} =$

3)  $\frac{7}{9} =$

4)  $\frac{3}{4} =$

5)  $\frac{11}{13} =$

6)  $\frac{5}{9} =$

7)  $\frac{15}{16} =$



$$8) \frac{4}{7} =$$

$$9) \frac{5}{7} =$$

## WORKSHEET - 5

Class :- 5Month :- September

Compare the following fractions:-

Model :-  $\frac{59}{77} < \frac{59}{77}$

1)  $\frac{117}{1313}$

2)  $\frac{1518}{1919}$

3)  $\frac{31}{99}$

4)  $\frac{1818}{2323}$

5)  $\frac{97}{1111}$

6)  $\frac{83}{99}$

7)  $\frac{1212}{1717}$

8)  $\frac{67}{1919}$

9)  $\frac{73}{88}$

10)  $\frac{49}{77}$

Class :- 5

**WORKSHEET - 7**

**Write the equivalent fractions for the following numbers:-**

**Model:-**  $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$

1)  $\frac{2}{5} =$

2)  $\frac{6}{7} =$

3)  $\frac{3}{5} =$

4)  $\frac{7}{9} =$

5)  $\frac{8}{9} =$

6)  $\frac{1}{4} =$

7)  $\frac{5}{3} =$

8)  $\frac{4}{5} =$

9)  $\frac{2}{3} =$

10)  $\frac{1}{5} =$

## WORKSHEET - 8

Class :- 5

Month:- September

Classifies the following into Acute angle, Right angle and Obtuse angle :-

$65^{\circ}$  ,  $90^{\circ}$  ,  $125^{\circ}$  ,  $115^{\circ}$  ,  $145^{\circ}$  ,  $89^{\circ}$  ,  $95^{\circ}$  ,  $155^{\circ}$  ,

$110^{\circ}$  ,  $114^{\circ}$  ,  $35^{\circ}$  ,  $25^{\circ}$  ,  $125^{\circ}$  ,  $150^{\circ}$  ,  $15^{\circ}$  ,  $10^{\circ}$  ,

$49^{\circ}$  ,  $26^{\circ}$  ,  $97^{\circ}$  ,  $9^{\circ}$  ,  $105^{\circ}$  ,  $69^{\circ}$  ,  $85^{\circ}$  ,  $75^{\circ}$  ,  $5^{\circ}$  ,  $135^{\circ}$  ,  $149^{\circ}$

**Acute angle:-**

**Right angle :-**

**Obtuse angle :-**

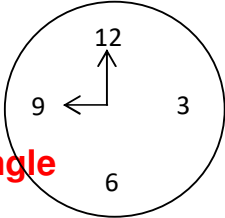
**WORKSHEET - 9**

Class :- 5

Month :- September

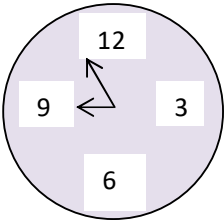
Introduce an angle between the needles in clock and name them:-

Model :-



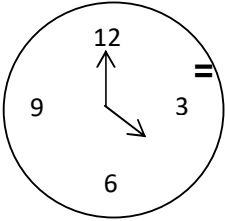
= Right angle

1)



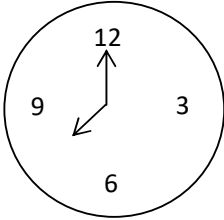
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2)



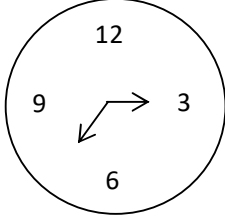
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3)



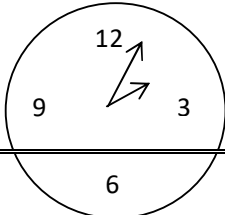
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4)



=

5)



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