

ACTIVITY NO. - 12

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Ratio and Proportion
Topic	Equivalent Ratios
Time	35 minutes
Nature of Activity	Group

What will I learn (Learning outcome)?

To examine equivalent ratios.

Skills:- Critical Thinking, Problem Solving, Psychomotor Coordination, Examining

What I have to do?

To examine equivalent ratios by playway method.

What do I require?

Thick paper, pair of scissors, sketch pen and adhesive.

What do I need to know?

Concept of Ratio, Simplest form and Equivalent ratios.

➤ Teacher's Activity

Teacher will

- make cut-outs of 40 slips depicting different ratios and put them in an open box.
- enable the students to recall the concept of ratio, equivalent ratios and discuss its simplest form.
- make pairs of the students and will explain the steps of the activity.

9 : 36

30 : 105

2 : 7

32 : 48

12 : 26

10 : 35

2 : 3

24 : 52

28 : 98

1 : 4

How will I proceed?

➤ Student's Activity

- Each pair will pick one card and will find the equivalent ratio from the box in one minute.

- Other pairs follow the same procedure and will find the equivalent ratio.
- Then, whichever pair gets equivalent ratios in given time, will be the winner.

What have I observed?

Complete the following table:

Pair	Ratio on the first slip	Ratio on the second slip obtained	Equivalent Ratios (Yes/No)
1			

(Similar observation table will be prepared by Pair 2, Pair 3, Pair 4...)

What have I learnt?

To examine _____ ratios.

What am I curious to know?

Make five ratios equivalent to the ratio of your height (in cm) to the length of your shadow (in cm) from a certain point.

Let me evaluate myself

- Find any four equivalent ratios of 4 : 5.

- _____
- _____
- _____
- _____

- Fill in the equivalent ratios:

- $2 : 7 = \underline{\hspace{1cm}} : 21 = \underline{\hspace{1cm}} : 35$
- $6 : 9 = 12 : \underline{\hspace{1cm}} = 18 : \underline{\hspace{1cm}}$
- $1 : 10 = \underline{\hspace{1cm}} : 50 = \underline{\hspace{1cm}} : 100$
- $3 : 8 = 14 : \underline{\hspace{1cm}} = 24 : \underline{\hspace{1cm}}$

- Check whether the given ratios 16 : 40 and 4 : 10 are equivalent or not:

4. Write two equivalent ratios for the following:

(a)

5		
11		

(b)

13		
15		

5. Alex makes an alloy by mixing two types of metals, A and B. To make one unit of alloy, he needs 12 grams of metal A and 17 grams of metal B. If he makes 5 units alloy, how many grams of metal A and metal B does he need?
