



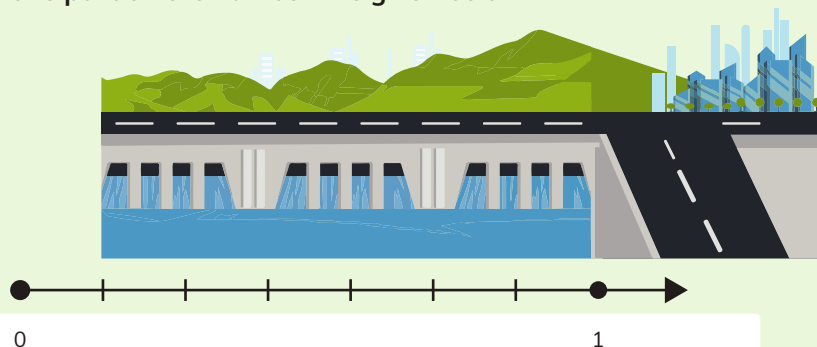
## Learning Outcome:

Use visual fraction models such as area models, number lines, and collection of objects to generate equivalent fractions.

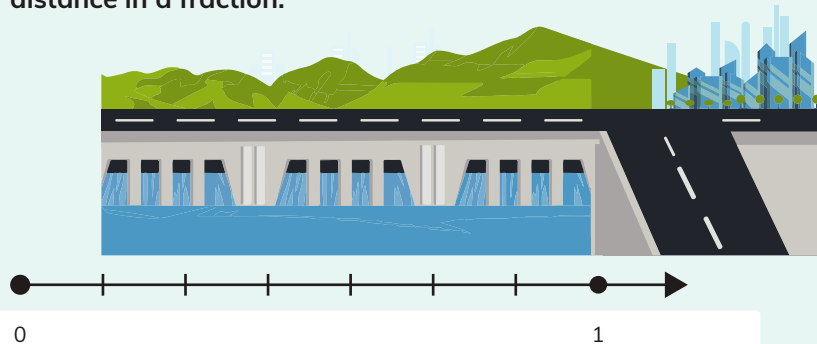
4.NF.A.1

Woody helps in supplying dam water to the homes of Freshwater Springs for the coming summer. Help him to supply the water with your knowledge of equivalent fractions.

- 1 The distance between the dam and the city is divided into 7 equal parts. Show the fraction for one part on the number line given below.

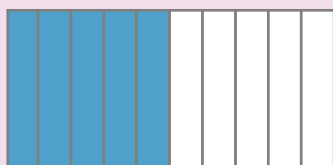


- 2 A channel for water is made up to 4 parts out of the 7 parts of the total distance. Represent this distance in a fraction.



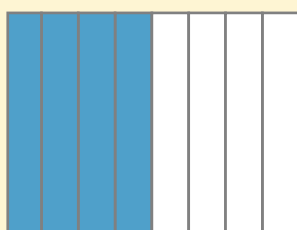
Fraction =  $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$

- 3 The connections are done for half of the parts out of the 10 equal parts of the main channel. Represent this in a fraction.

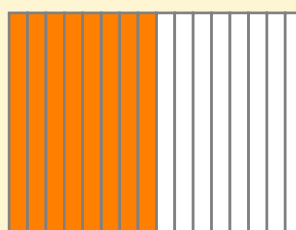


Fraction =  $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$  or  $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$

- 4 The shaded part in figure 1 shows the fraction of all the homes for which connections are done. The shaded part of figure 2 is equivalent to that of figure 1. Write the fractions for both the figures.



Fraction =  $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$



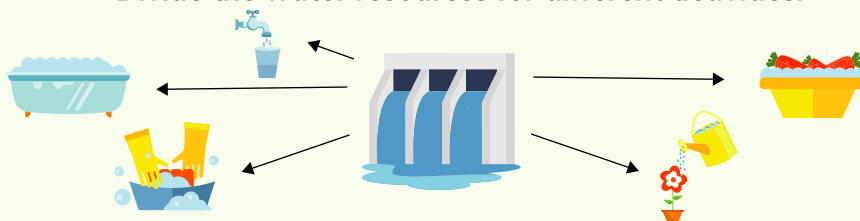
Fraction =  $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$

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4.NF.A.1

Divide the water resources for different activities.



Help the people of the village to use the water from the dam efficiently and effectively.

- 1 Mr. Woody estimated that the dam can provide a volume of 40 units per day. Help him in finding the fraction of water required for the given activities. On a rainy day, the dam supplied 80 units per day. Find the equivalent fractions for all the activities for that day.

Activity	Volume used	Fraction for 40 units per day	Equivalent fraction for 80 units per day
 Bathing	4 units		
 Cooking	7 units		
 Watering the plants	8 units		
 Drinking	11 units		
 Washing	10 units		

- 2 One-fourth of the water is used for washing. If they used 60 units of water on a given day, then find the fraction of water used for washing.

Fraction =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

- 3 The water used for bathing and washing is  $\frac{1}{10}$  and  $\frac{1}{4}$ , respectively. Find the total fraction of water used.

Fraction =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

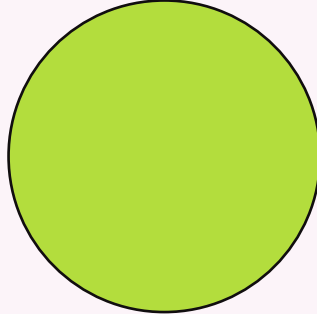
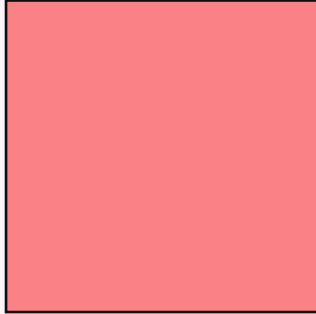
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4.NF.A.1

**Make a plan for rainwater conservation.**

- Decide a shape of the pit to store rainwater.



- Divide the pit into 7 equal parts and represent the parts for drinking, washing, and watering the plants with different colors. Write the fraction of each.

Drinking =

Washing =

Watering plants =

**Divide the pit**

- Each part is further divided into 4 equal parts to cater to the needs of 4 different families. Find the new fractions.

Drinking =

Washing =

Watering plants =

**Divide the pit**