

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 1

Unit 4: Decimals Numbers and Percentage

Topic: Division of Decimals

## Student Learning Outcomes:

- Divide a 3 - digit number up to 2 decimal places by 10, 100, and 1000.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook, Flash cards of decimal numbers, Worksheet

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students: How many decimal points moves to the left when we divide a decimal number by 100.
- Take their responses and appreciate them for their correct answer.

## Teaching and Learning Activities:

25mins

- Make three groups of students.
- Give each group five flash cards of decimal numbers. Instruct first group to divide decimal number by 10.
- Instruct the second group to divide the decimal number by 100 and the third group divide the decimal numbers by 1000.
- Roam around the class and observe their working. Instruct them to raise hand when finished. Now call first group and ask them to show their working to the whole class.
- Ask the rest of two groups to check their working and correct if needed. Repeat this activity to the other groups. Appreciate them for their good working.

## Review:

3mins

Sum up the lesson by explaining students that when we divide a decimal by 10, 100 and 1000, move the decimal point one, two and three decimal places to the left respectively.

## Evaluation:

5mins

To evaluate the learning of the students ask them to solve Q1 (i-v) of Exercise 4.4 in their notebooks.

## Homework:

2mins

Solve Q1(vi-ix) of Exercise 4.4 in their notebooks.

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 2

Unit 4: Decimals Numbers and Percentage

Topic: Division of Decimals

## Student Learning Outcomes:

- Divide a 3-digit numbers up to 2 decimal places by a whole number up to 2-digit.
- Solve real life situations involving division.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students to tell: How we divide a number by 10, 100 and 1000? How many points the decimal point moves towards the left when we divide a decimal number by 10, 100 and 1000? Take their responses.

## Teaching and learning Activities:

20mins

- Tell students that today we are going to learn about the division of decimal number by whole numbers up to 2-digits.
- Tell them there are two methods to divide the decimal number by whole number. First one is by converting them to fraction and second one is direct method. Tell them that today we will divide decimal number by whole number by converting decimal number to fraction.
- Ask them to read the statement of the example "Ahmad bought 8.45 kg of dates and put them equally in 5 packets. How much dates did he packed in one packet?". Ask them to read the statement and tell what is given and what we have to find.
- Take their responses and tell them that we have to find the dates he packed in one packet. For this we have to divide 8.45 by 5. To divide first convert 8.45 into fraction and then divide it by 5.

$$8.45 = \frac{845}{100}$$

$$8.45 \div 5 = \frac{845}{100} \times \frac{1}{5} = \frac{845}{100 \times 5} = \frac{845}{500} = 1.69\text{kg}$$

So, he packed 1.69 kg of almonds in each packet.

## Review:

3mins

Recall the students how we divide a decimal number by converting them into fraction by solving example on the board.

## Evaluation:

10mins

To assess the students ask them to solve Q2(i-v) of Exercise 4.4 in their notebooks.

**Homework:**

**2mins**

Solve Q2 (vi-ix) of Exercise 4.4 in their notebooks.

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 3

Unit 4: Decimals Numbers and Percentage

Topic: Division of Decimals

## Student Learning Outcomes:

- Divide a 3-digit number up to 2 decimal places by a 2-digit number up to 1 decimal place.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students to tell: How many methods to divide a decimal number by a whole number.
- Take their responses and appreciate them for their correct answer.

## Teaching and Learning Activities:

20mins

- Tell them that today we are going to learn about the division of decimal number by decimal numbers. Tell them there are two methods to divide the decimal numbers, first is by converting them to fraction and second one is direct method. Tell them that today we will divide decimal numbers by converting decimal number to fraction. Tell them that we have to divide 3.2 by 1.6. For this we convert both decimal numbers to fractions that is:

$$3.2 \div 1.6 = \frac{32}{10} \div \frac{16}{10} = \frac{32}{10} \times \frac{10}{16} = \frac{320}{160} = 2$$

- Explain each step to students by solving on the board.

## Review:

3mins

Sum up the lesson by explaining the steps of division of decimal number by decimal number by converting them to fraction.

## Evaluation:

10mins

To assess the students learning ask them to solve Q3 (i-v) of Exercise 4.4 in their notebooks.

## Homework:

2mins

Solve Q3 (vi-ix) of Exercise 4.4 in their notebooks.

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 4

Unit 4: Decimals Numbers and Percentage

Topic: Division of Decimals

## Student Learning Outcomes:

- Divide a 3-digit number up to 2 decimal places by a 2- digit number up to 1 decimal place.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students to tell the steps of dividing a decimal number by a decimal number by converting them into fraction.
- Take their responses and appreciate them for their correct answer.

## Teaching and Learning Activities:

20mins

- Tell them that today we will divide a decimal number by a 2-digit decimal number up to 1-decimal number by direct method. Tell them that when we divide a decimal number by a decimal number first convert the divisor to a whole number and then simply divide them.
- Let us divide 8.52 by 1.2.
- To convert 1.2 to whole number we will multiply both 8.52 and 1.2 by a suitable multiply of 10.

$$8.52 \div 1.2 = \frac{8.52 \times 10}{1.2 \times 10} = \frac{85.2}{12}$$

$$\begin{array}{r} 7.1 \\ 12 \overline{) 85.2} \\ \underline{- 84} \phantom{0} \\ 12 \\ \underline{- 12} \\ 0 \end{array}$$

- Now simply divide 85.2 by 12 on the board and explain each step to them.
- Explain the direct decimal numbers by direct methods to solve another example on the board.

## Review:

3mins

Re-tell students how we divide a 3-digit decimal number up to 2-decimal places by a 2-digit decimal number up to 1-decimal place.

## Evaluation:

10mins

To evaluate the understanding of the students ask them to solve Q4 of Exercise 4.4 of their textbook in their notebooks.

## Homework:

2mins

Solve Q5 – 6 of Exercise 4.4 of their textbook in the notebooks.

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 5

Unit 4: Decimals Numbers and Percentage

Topic: Converting Fractions to Decimals

## Student Learning Outcomes:

- Convert fractions to decimals using division.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook, Flashcards of fractional numbers

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students to tell in how many ways we multiply and divide the decimal numbers by whole numbers and decimal numbers.
- Take their responses and appreciate them for their correct answer.

## Teaching and Learning Activities:

25mins

- Tell students today we will learn about conversion of fractions to decimals. Write the statement of the example on the board that is "Haris has a pizza and he ate  $\frac{2}{5}$  of the pizza. Find in decimal how much pizza he ate?". Tell them that we find the pizza that he ate, in decimal number. For this we have to divide 2 by 5.
- Now divide 2 by 5 step by step and explain each step to student. Tell them that by dividing 2 by 5 we get 0.4 a decimal number.
- Make two groups of students. Give each group some cards of fractional number. Instruct them to convert these fractions to decimal number.
- Roam around and instruct them to raise their hand when finished and check their work and correct if any mistake.

$$\begin{array}{r} 0.4 \\ 5 \overline{) 2.0} \\ \underline{- 0} \phantom{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

## Review:

3mins

Revise the lesson by repeating how we can convert fraction to decimal by solving examples on board.

## Evaluation:

5mins

To assess the students understanding ask them to solve Q1(i-vi) of Exercise 4.5 of their textbook in their notebooks.

## Homework:

2mins

Solve Q (vii-viii) and Q2 and Q3 of Exercise 4.5 in their notebooks.

# Lesson Plan

Grade: Five

Subject: Math

Term: 2<sup>nd</sup>

Time: 40mins

Teacher's Name: \_\_\_\_\_

Week: 3

Day: 6

Unit 4: Decimals Numbers and Percentage

Topic: Rounding of Decimals

## Student Learning Outcomes:

- Round off a 4-digit number up to 3-decimal places to the nearest tenth and hundredth.

## Resource Material:

Chalk/Marker, White/Blackboard, Math Textbook

## Warm-up Activities:

5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask them to tell how we can convert the fraction to decimal.
- Take their responses and appreciate them for their correct answer.

## Teaching and Learning Activities:

20mins

- Tell students today we will learn about rounding off decimal numbers to the nearest tenths.
- Explain students that a decimal can be rounded off to a certain accuracy which is an estimated value.
- Tell students there are some rules to round off decimals to the nearest tenths or hundredth.
- Tell them, if the digit in hundredth place is less than 5, do not change the tenths place digit and remove all digits to its right. If digit in the hundredth place is 5 or greater than 5, then add 1 to the tenths place digit and remove all digits to its right.
- Now write a statement "Hira is showing her sister how to make orange jam"? She says to use 4.621 pounds of oranges. Write the mass to nearest tenths.
- Tell students, here 2 is in hundredths place is less than 5. So, we do not change the tenths place digit 6 and just remove all the digits to the right 4.621  $\approx$  4.6 (round off to nearest tenths).

## Review:

3mins

Explain the students how to round off decimal numbers to nearest 10.

## Evaluation:

10mins

To evaluate students ask them to solve Exercise 4.6 (i-iv) in their notebooks.

## Homework:

2mins

Solve Q (viii) of Exercise 4.6 of their textbook in their notebooks.