

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Score: \_\_\_\_\_

## Worksheet #5

## COMPOUND INTEREST- FINDING AMOUNT

**Learning goal:** Students will be able to understand and to find compound interest in real-life problems.

**Instructions:** Calculate the Amount in compound interest using the formula.

$$A = P \left( 1 + \frac{r}{100} \right)^n$$

WORD PROBLEM	CALCULATE & ANSWER
Ramesh deposited ₹5,000 in a savings account that earns 6% interest per annum. He kept the money in the account for 5 years.	
Priya deposited ₹10,000 in a fixed deposit that earns 8% interest per annum. She kept the money in the account for 3 years.	
Kiran invested ₹8,000 in a recurring deposit that earns 7% interest per annum. He kept the money in the account for 4 years.	
Meera deposited ₹6,500 in a savings account that earns 5% interest per annum. She kept the money in the account for 6 years.	
Arjun invested ₹12,000 in a fixed deposit that earns 9% interest per annum. He kept the money in the account for 2 years.	
Sita deposited ₹7,500 in a savings account that earns 4% interest per annum. She kept the money in the account for 3 years.	
Rahul invested ₹15,000 in a recurring deposit that earns 10% interest per annum. He kept the money in the account for 5 years.	
Lakshmi deposited ₹9,000 in a fixed deposit that earns 6% interest per annum. She kept the money in the account for 7 years.	

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Score: \_\_\_\_\_

## Worksheet #5 (Answers)

## COMPOUND INTEREST- FINDING AMOUNT

**Learning goal:** Students will be able to understand and to find compound interest in real-life problems.

**Instructions:** Calculate the Amount in compound interest using the formula.

$$A = P \left( 1 + \frac{r}{100} \right)^n$$

WORD PROBLEM	CALCULATE & ANSWER
Ramesh deposited ₹5,000 in a savings account that earns 6% interest per annum. He kept the money in the account for 5 years.	$A = 5000 \left( 1 + \frac{6}{100} \right)^5 = 5000(1.06)^5$ $= 5000 \times 1.3382$ $= \text{₹6,691}$
Priya deposited ₹10,000 in a fixed deposit that earns 8% interest per annum. She kept the money in the account for 3 years.	$A = 10000 \left( 1 + \frac{8}{100} \right)^3 = 10000(1.08)^3$ $= 10000 \times 1.2597$ $= \text{₹12,597}$
Kiran invested ₹8,000 in a recurring deposit that earns 7% interest per annum. He kept the money in the account for 4 years.	$A = 8000 \left( 1 + \frac{7}{100} \right)^4 = 8000(1.07)^4$ $= 8000 \times 1.3108$ $= \text{₹10,486.4}$
Meera deposited ₹6,500 in a savings account that earns 5% interest per annum. She kept the money in the account for 6 years.	$A = 6500 \left( 1 + \frac{5}{100} \right)^6 = 6500(1.05)^6$ $= 6500 \times 1.3401$ $= \text{₹8,710.65}$
Arjun invested ₹12,000 in a fixed deposit that earns 9% interest per annum. He kept the money in the account for 2 years.	$A = 12000 \left( 1 + \frac{9}{100} \right)^2 = 12000(1.09)^2$ $= 12000 \times 1.1881$ $= \text{₹14,257.2}$
Sita deposited ₹7,500 in a savings account that earns 4% interest per annum. She kept the money in the account for 3 years.	$A = 7500 \left( 1 + \frac{4}{100} \right)^3 = 7500(1.04)^3$ $= 7500 \times 1.1249$ $= \text{₹8,436.75}$
Rahul invested ₹15,000 in a recurring deposit that earns 10% interest per annum. He kept the money in the account for 5 years.	$A = 15000 \left( 1 + \frac{10}{100} \right)^5 = 15000(1.10)^5$ $= 15000 \times 1.6105$ $= \text{₹24,157.5}$
Lakshmi deposited ₹9,000 in a fixed deposit that earns 6% interest per annum. She kept the money in the account for 7 years.	$A = 9000 \left( 1 + \frac{6}{100} \right)^7 = 9000(1.06)^7$ $= 9000 \times 1.5036$ $= \text{₹13,532.4}$