Name: **Grade:** **Score:**

Worksheet #4

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
Anjali deposited ₹6,000 in a fixed deposit that earns 5% interest per annum. She kept the money in the account for 4 years.	
Rohit invested ₹8,500 in a savings account that earns 7% interest per annum. He kept the money in the account for 3 years.	
Kavya deposited ₹10,000 in a fixed deposit that earns 6% interest per annum. She kept the money in the account for 5 years.	
Suresh invested ₹7,200 in a savings account that earns 8% interest per annum. He kept the money in the account for 2 years.	
Priya deposited ₹15,000 in a recurring deposit that earns 5% interest per annum. She kept the money in the account for 3 years.	
Arvind invested ₹9,000 in a fixed deposit that earns 4% interest per annum. He kept the money in the account for 4 years.	
Divya deposited ₹12,000 in a savings account that earns 9% interest per annum. She kept the money in the account for 3 years.	
Raju invested ₹20,000 in a fixed deposit that earns 10% interest per annum. He kept the money in the account for 4 years.	

Name: **Grade:** **Score:**

Worksheet #4 (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
Anjali deposited ₹6,000 in a fixed deposit that earns 5% interest per annum. She kept the money in the account for 4 years.	$A = 6000\left(1 + \frac{5}{100}\right)^4 = 6000(1.05)^4$ = 6000 × 1.215506 = **₹7,293.04**
Rohit invested ₹8,500 in a savings account that earns 7% interest per annum. He kept the money in the account for 3 years.	$A = 8500\left(1 + \frac{7}{100}\right)^3 = 8500(1.07)^3$ = 8500 × 1.225043 = **₹10,612.86**
Kavya deposited ₹10,000 in a fixed deposit that earns 6% interest per annum. She kept the money in the account for 5 years.	$A = 10000\left(1 + \frac{6}{100}\right)^5 = 10000(1.06)^5$ = 10000 × 1.338225 = **₹13,382.25**
Suresh invested ₹7,200 in a savings account that earns 8% interest per annum. He kept the money in the account for 2 years.	$A = 7200\left(1 + \frac{7}{100}\right)^2 = 7200(1.07)^2$ = 7200 × 1.1664 = **₹8,398.08**
Priya deposited ₹15,000 in a recurring deposit that earns 5% interest per annum. She kept the money in the account for 3 years.	$A = 15000\left(1 + \frac{5}{100}\right)^3 = 15000(1.05)^3$ = 15000 × 1.157625 = **₹17,364.38**
Arvind invested ₹9,000 in a fixed deposit that earns 4% interest per annum. He kept the money in the account for 4 years.	$A = 9000\left(1 + \frac{4}{100}\right)^4 = 9000(1.04)^3$ = 9000 × 1.169858 = **₹10,528.72**
Divya deposited ₹12,000 in a savings account that earns 9% interest per annum. She kept the money in the account for 3 years.	$A = 12000\left(1 + \frac{9}{100}\right)^3 = 12000(1.09)^3$ = 12000 × 1.295029 = **₹15,540.35**
Raju invested ₹20,000 in a fixed deposit that earns 10% interest per annum. He kept the money in the account for 4 years.	$A = 20000\left(1 + \frac{10}{100}\right)^4 = 20000(1.10)^4$ = 20000 × 1.4641 = **₹29,282**