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

Worksheet #5

FINDING COMPOUND INTEREST AND AMOUNT

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

Instructions: Calculate the Amount and compound interest using the formula.

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

WORD PROBLEM	CALCULATION	C.I. = A - P	A = P + C.I.
Meera deposited ₹7,200 in a fixed deposit that earns 6.5% interest per annum. She kept the money for 4 years.			
Aditya invested ₹11,000 in a savings account that earns 5.2% interest per annum. He kept the money for 5 years.			
Priyanka deposited ₹9,500 in a bank that offers 7.8% interest per annum. She kept the money for 3 years.			
Ravi invested ₹16,000 in a recurring deposit that earns 8.2% interest per annum. He kept the money for 2 years.			
Sanya saved ₹4,800 in a savings account that earns 4.5% interest per annum. She kept the money for 6 years.			
Kunal deposited ₹10,500 in a fixed deposit that earns 9.5% interest per annum. He kept the money for 3 years.			
Neha invested ₹22,000 in a mutual fund that provides 10.8% annual interest. She kept the investment for 4 years.			
Arjun deposited ₹30,000 in a recurring deposit that earns 3.8% interest per annum. He kept the money for 5 years.			

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

Worksheet #5 (Answers)

FINDING COMPOUND INTEREST AND AMOUNT

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

Instructions: Calculate the Amount and compound interest using the formula.

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

WORD PROBLEM	CALCULATION	C.I. = A - P	A = P + C.I.
Meera deposited ₹7,200 in a fixed deposit that earns 6.5% interest per annum. She kept the money for 4 years.	$A = 7200(1 + \frac{6.5}{100})^4 = 9,243.67$	₹2,043.67	₹9,243.67
Aditya invested ₹11,000 in a savings account that earns 5.2% interest per annum. He kept the money for 5 years.	$A = 11000(1 + \frac{5.2}{100})^5 = 14,123.45$	₹3,123.45	₹14,123.45
Priyanka deposited ₹9,500 in a bank that offers 7.8% interest per annum. She kept the money for 3 years.	$A = 9500(1 + \frac{7.8}{100})^3 = 11,892.34$	₹2,392.34	₹11,892.34
Ravi invested ₹16,000 in a recurring deposit that earns 8.2% interest per annum. He kept the money for 2 years.	$A = 16000(1 + \frac{8.2}{100})^2 = 18,748.16$	₹2,748.16	₹18,748.16
Sanya saved ₹4,800 in a savings account that earns 4.5% interest per annum. She kept the money for 6 years.	$A = 4800(1 + \frac{4.5}{100})^6 = 29,752.45$	₹1,443.89	₹6,243.89
Kunal deposited ₹10,500 in a fixed deposit that earns 9.5% interest per annum. He kept the money for 3 years.	$A = 10500(1 + \frac{9.5}{100})^3 = 13,764.22$	₹3,264.22	₹13,764.22
Neha invested ₹22,000 in a mutual fund that provides 10.8% annual interest. She kept the investment for 4 years.	$A = 22000(1 + \frac{10.8}{100})^4 = 33,147.29$	₹11,147.29	₹33,147.29
Arjun deposited ₹30,000 in a recurring deposit that earns 3.8% interest per annum. He kept the money for 5 years.	$A = 30000(1 + \frac{3.8}{100})^5 = 36,123.45$	₹6,123.45	₹36,123.45