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

Worksheet #1

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 using the formula.

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

Q. No.	GIVEN	SUBSTITUTION	CALCULATION	AMOUNT
1.	P = ₹1,000 r = 5% n = 2			
2.	P = ₹4,000 r = 3% n = 7			
3.	P = ₹3,500 r = 5% n = 6			
4.	P = ₹5,500 r = 4% n = 3			
5.	P = ₹6,000 r = 7% n = 4			

Find the amount. Given: P = ₹3,000 r = 5% n = 4	Find the amount. Given: P = ₹2,500 r = 6% n = 3	Find the amount. Given: P = ₹4,000 r = 4% n = 5	Find the amount. Given: P = ₹6,000 r = 3% n = 7

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

Worksheet #1 (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 using the formula.

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

Q. No.	GIVEN	SUBSTITUTION	CALCULATION	AMOUNT
1.	P = ₹1,000 r = 5% n = 2	$A = 1000\left(1 + \frac{5}{100}\right)^2$	$A = 1000(1.05)^2$ $A = 1000\,(1.1025)$	1102.5
2.	P = ₹4,000 r = 3% n = 7	$A = 4000\left(1 + \frac{3}{100}\right)^7$	$A = 4000(1.03)^7$ $A = 4000\,(1.225)$	4919.60
3.	P = ₹3,500 r = 5% n = 6	$A = 3500\left(1 + \frac{5}{100}\right)^6$	$A = 3500(1.05)^6$ $A = 3500\,(1.3401)$	4690.35
4.	P = ₹5,500 r = 4% n = 3	$A = 5500\left(1 + \frac{4}{100}\right)^3$	$A = 5500(1.04)^3$ $A = 5500\,(1.1248)$	6186.95
5.	P = ₹6,000 r = 7% n = 4	$A = 6000\left(1 + \frac{7}{100}\right)^4$	$A = 6000(1.07)^4$ $A = 6000\,(1.3108)$	7864.8

Find the amount. Given: P = ₹3,000 r = 5% n = 4	Find the amount. Given: P = ₹2,500 r = 6% n = 3	Find the amount. Given: P = ₹4,000 r = 4% n = 5	Find the amount. Given: P = ₹6,000 r = 3% n = 7
3646.52	**2977.54**	**4866.61**	**7379.40**