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Grade:

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Worksheet #1

COMPARING SIMPLE INTEREST AND COMPOUND INTEREST

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

Instructions: Calculate and compare the amount of simple and compound interest.

	Q. No.	GIVEN	AMOUNT(C.I.)	AMOUNT(S.I.)	COMPARE
	1.	P = ₹1,000, r = 5%, n = 2 years			
	2.	P = ₹2,000, r = 6%, n = 3 years		ТМ	
	3.	P = ₹5,000, r = 8%, n = 4 years			
com	4.	P = ₹10,000, r = 10%, n = 5 years	and	Mc	ıth
©meandmat	5.	P = ₹7,500, r = 12%,n = 2 years	BELIEVE YOU	IRSELF	
	6.	P = ₹15,000, r = 15%, n = 3 years			
	7.	P = ₹20,000, r = 20%, n = 4 years			

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Name:	Grade:	Score:

Worksheet #1(Answer)

COMPARING SIMPLE INTEREST AND COMPOUND INTEREST

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

Instructions: Calculate and compare the amount of simple and compound interest.

	Q. No.	GIVEN	AMOUNT(C.I.)	AMOUNT(S.I.)	COMPARE
	1.	P = ₹1,000, r = 5%, n = 2 years	$A = 1000 \left(1 + \frac{5}{100}\right)^{2}$ ₹1,102.50	$A=1000+\left[rac{1000 imes5 imes2}{100} ight] \ A=1100$	C.I. > S.I. by ₹2.50
	2.	P = ₹2,000, r = 6%, n = 3 years	$A = 2000 \left(1 + \frac{6}{100}\right)^3$ ₹2,382.03	$A=2000+\left[rac{2000 imes 6 imes 3}{100} ight]$ $A=2360$	C.I. > S.I. by ₹22.03
	3.	P = ₹5,000, r = 8%, n = 4 years	$A = 5000 \left(1 + \frac{8}{100}\right)^4$ ₹6,802.44	$A=5000+\left[rac{5000 imes8 imes4}{100} ight]$ $A=6600$	C.I. > S.I. by ₹202.44
dmath com	4.	P = ₹10,000, r = 10%, n = 5 years	$A = 10000 \left(1 + \frac{10}{100}\right)^5$ ₹16,105.10	$A=10000+\left[rac{10000 imes10 imes5}{100} ight]$ $A=15000$	C.I. > S.I. by ₹1,105.10
©mean	5.	P = ₹7,500, r = 12%, n = 2 years	$A = 7500 \left(1 + \frac{12}{100} \right)^2$ ₹9,408.00	$A=7500+\left[rac{7500 imes12 imes2}{100} ight] \ A=9300$	C.I. > S.I. by ₹108.00
	6.	P = ₹15,000, r = 15%, n = 3 years	$A = 15000 \left(1 + \frac{15}{100} \right)^3$ ₹22,781.25	$A = 15000 + \left[rac{15000 imes 15 imes 3}{100} ight] \ A = 21750$	C.I. > S.I. by ₹1,031.25
	7.	P = ₹20,000, r = 20%, n = 4 years	$A = 20000 \left(1 + \frac{20}{100}\right)^4$ ₹41,472.00	$A = 15000 + \left[rac{15000 imes 15 imes 3}{100} ight] \ A = 36,000$	C.I. > S.I. by ₹5,472.00

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