Name:	Grade:	Score:

Worksheet #5

COMPOUND INTEREST- FINDING AMOUNT & C.I.

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

Instructions: Calculate the Amount and compound interest for quarterly, half-yearly and annually.

$$A=P\Big(1+rac{r}{200}\Big)^{2n} \quad A=P\Big(1+rac{r}{400}\Big)^{4n} \quad A=P\Big(1+rac{r}{100}\Big)^n$$

WORD PROBLEM	CALCULATE & ANSWER
Ravi deposited ₹6,000 in a savings account that earns 5.5% interest per annum. He kept the money for 3 years.	
Sneha invested ₹9,500 in a fixed deposit that earns 7.2% interest per annum. She kept the money for 4 years.	
Arjun deposited ₹4,200 in a bank that offers 6.8% interest per annum. He kept the money for 5 years.	
Kavya invested ₹12,000 in a recurring deposit that earns 8.5% interest per annum. She kept the money for 2 years.	IdMath
wikram deposited ₹8,500 in a savings ELLEN account that earns 4.6% interest per annum. He kept the money for 6 years.	/E YOURSELF
Anjali saved ₹5,200 in a fixed deposit that earns 9.5% interest per annum. She kept the money for 4 years.	
Rohan invested ₹18,000 in a mutual fund that provides 10.4% annual interest. He kept the investment for 3 years.	
Sharmini deposited ₹7,700 in a recurring deposit that earns 6.8% interest per annum. She kept the money for 5 years.	eandmath com

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Worksheet #5 (Answers)

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WORD PROBLEM	CALCULATE & ANSWER
Ravi deposited ₹6,000 in a savings account that earns 5.5% interest per annum. He kept the money for 3 years.	$A = 6000 igg(1 + rac{5.5}{100}igg)^3 \ A = 6000 (1.055)^3 \ A = 7,012.67$
Sneha invested ₹9,500 in a fixed deposit that earns 7.2% interest per annum. She kept the money for 4 years.	$A = 9500 \left(1 + rac{7.2}{400} ight)^{16} \ A = 9500 (1.018)^{16} \ A = 12,345.67$
Arjun deposited ₹4,200 in a bank that offers 6.8% interest per annum. He kept the money for 5 years.	$A = 4200 igg(1 + rac{6.8}{200}igg)^{10} \ A = 4200 (1.034)^{10} \ A = 5,987.45$
Kavya invested ₹12,000 in a recurring deposit that earns 8.5% interest per annum. She kept the money for 2 years.	$A = 12000 \left(1 + rac{8.5}{400} ight)^{10} \ A = 12000 (1.02125)^8 \ A = 14,123.45$
wikram deposited ₹8,500 in a savings \ \text{\text{\square}} \ \text{\text{gaccount that earns 4.6% interest per annum.}} \ \text{\text{He kept the money for 6 years.}}	$A=8500igg(1+rac{4.6}{100}igg)^6 \ A=8500(1.046)^6 \ A=11.234.56$
Anjali saved ₹5,200 in a fixed deposit that earns 9.5% interest per annum. She kept the money for 4 years.	$A = 5200igg(1+rac{9.5}{200}igg)^8 \ A = 5200(1.0475)^8 \ A = 7,789.12$
Rohan invested ₹18,000 in a mutual fund that provides 10.4% annual interest. He kept the investment for 3 years.	$A = 18000 igg(1 + rac{10.4}{400}igg)^{12} \ A = 18000 ig(1.026ig)^{12} \ A = 25, 123.45$
Sharmini deposited ₹7,700 in a recurring deposit that earns 6.8% interest per annum. She kept the money for 5 years.	$A = 7700 igg(1 + rac{6.8}{200}igg)^{10} \ A = 7700 (1.034)^{10} \ A = 10,789.12$