Name: Grade: Score:
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## Worksheet #3

## COMPARING SIMPLE INTEREST AND COMPOUND INTEREST

**Learning goal:** Students will be able to understand and can compare compound interest and simple interest.

**Instructions:** Calculate the Amount & compound interest using the formula.

WORD PROBLEM	GIVEN	S.I.	C.I.	COMPARE
Mohan invested ₹10,500 in a fixed deposit that earns 6.5% interest per annum. He kept the money for 4 years.	P = ₹10,500, r = 6.5%, t = 4 years			
Priya saved ₹8,200 in a savings account that earns 7.2% interest per annum. She kept the money for 3 years.	P = ₹8,200, r = 7.2%, t = 3 years		MT	
Raj deposited ₹15,000 in a bank that offers 8.4% interest per annum. He kept the money for 5 years.	P = ₹15,000, r = 8.4%, t = 5 years	ndl	Vai	h
© nanya invested Eló,500 in a recurring Eló,500 in a recurring Eló,500 in a recurring Eló,500 in a recurring P.6% interest per annum. She kept the money for 2 years.	P = ₹16,500, r = 9.6%, t = 2 years	EVE YOURS!	ELF	
Vivek deposited ₹9,800 in a savings account that earns 5.4% interest per annum. He kept the money for 6 years.	P = ₹9,800, r = 5.4%, t = 6 years			

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## Grade:

Score:

Worksheet #3(Answer)

## COMPARING SIMPLE INTEREST AND COMPOUND INTEREST

**Learning goal:** Students will be able to understand and can compare compound interest and simple interest.

**Instructions:** Calculate the Amount & compound interest using the formula.

WORD PROBLEM	GIVEN	S.I.	C.I.	COMPARE
Mohan invested ₹10,500 in a fixed deposit that earns 6.5% interest per annum. He kept the money for 4 years.	P = ₹10,500, r = 6.5%, t = 4 years	$S. I = \frac{10500 \times 6.5 \times 4}{100} = 2730$ = ₹13,230	$S.I = \frac{10500 \times 6.5 \times 4}{100} = 2730$	C.I. > S.I. by ₹337.89
Priya saved ₹8,200 in a savings account that earns 7.2% interest per annum. She kept the money for 3 years.	P = ₹8,200, r = 7.2%, t = 3 years	$S.I = \frac{8200 \times 7.2 \times 3}{100} = 1,771.20$ $=                                    $	$A = 8200 \left(1 + \frac{7.2}{100}\right)^3$ ₹10,123.45	C.I. > S.I. by ₹152.25
Raj deposited ₹15,000 in a bank that offers 8.4% interest per annum. He kept the money for 5 years.	P = ₹15,000, r = 8.4%, t = 5 years	$S.I = \frac{15000 \times 8.4 \times 5}{100} = 6300$ $= ₹21,300$	$A = 15000 \left( 1 + \frac{8.4}{100} \right)^5$ ₹22,456.78	C.I. > S.I. by ₹1,156.78
© Ananya invested El6,500 in a recurring Eleposit that earns 9.6% interest per annum. She kept the money for 2 years.	P = ₹16,500, r = 9.6%, t = 2 years	$S. I = \frac{16500 \times 9.6 \times 2}{100} = 3168$ $= ₹19,668$	$A = 16500 \left( 1 + \frac{9.6}{100} \right)^{2}$ ₹19,789.12	C.I. > S.I. by ₹121.12
Vivek deposited ₹9,800 in a savings account that earns 5.4% interest per annum. He kept the money for 6 years.	P = ₹9,800, r = 5.4%, t = 6 years	$S.I = \frac{9800 \times 5.4 \times 6}{100} = 3175.20$ $= ₹12,975.20$	$A = 9800 \left(1 + \frac{5.4}{100}\right)^{6}$ ₹13,456.78	C.I. > S.I. by ₹481.58

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