

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

### **Simple and Compound Interest Practice Worksheet**

*[ Always SHOW YOUR WORK when appropriate ...use additional paper if necessary]*

1. The amount paid to a depositor for keeping their money in a savings account is called:

- A. principle      B. term      C. interest      D. rate

2. The \_\_\_\_\_ determines how much is paid to the depositor each year.

- A. principle      B. term      C. interest      D. rate

3. The amount of the original investment is called:

- A. principle      B. term      C. interest      D. rate

4. Fill-in the appropriate words below:

a.) \_\_\_\_\_ interest is paid on principle only.

b.) \_\_\_\_\_ interest is paid on both principle and interest.

5. The formula for **simple interest** is:

\_\_\_\_\_

6. The formula for the **ending balance** on an account with simple interest is:

Find I, then add that amount to the original principle.

7. The formula for the **ending balance** on an account with compound interest is:

\_\_\_\_\_

8. In the simple interest formula  $i = p \times r \times t$  ( $I = P \times r \times t$ )

a.) What does the "p" represent? \_\_\_\_\_

b.) What does the "r" represent? \_\_\_\_\_

c.) What does the "t" represent? \_\_\_\_\_

9. Use **simple interest** to find the ending balance in the examples below:

a.) \$210 invested at 8% for 7 years

$$I = Prt$$

$$I = 210(.08)7$$

$$I = 117.60 \text{ (this is interest)}$$

Ending balance would be  $\$210$  (the principle) +  $\$117.60$  (the interest) =  $327.60$

c.) \$34,000 invested at 4% for 3 years

b.) \$4000 invested at 3% for 4 years

d.) \$2300 invested at 7.5% for 10 years

10. Use **compound interest** to find the ending balance in the examples below:  $A = P(1+r)^n$

a.) \$1,250 invested at 8%  
compounded annually for 2 years

$$A = 1,250(1+.08)^2$$

$$A = 1,250(1.08)^2$$

$$A = 1,458 \text{ This is the ending balance.}$$

c.) \$10,000 invested at 7.8%  
compounded annually for 2 years

b.) \$650 invested at 7%  
compounded annually for 5 years

d.) \$7,500 invested at 6%  
compounded annually for 15 years

11. How much interest is earned on a principle of \$646 invested  
at a **simple interest** rate of 5% for 10 years?

12. How much interest is earned on a principle of \$646 invested  
at a **compound interest** rate of 5% compounded annually for 10 years?

13. Does the amount of interest earned each year *increase*, *decrease*, or *stay the same* in a simple  
interest account? ...in a compound interest account? Explain your answers.

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