

Name Key

Date _____

Calculating Interest - Independent Practice Worksheet

$$I = p \cdot r \cdot t$$

Complete all the problems.

1. Richard deposited \$5,500 for 6 years on 2.40% interest rate in his saving account. How much simple interest will he earn?

$$I = 5500 \cdot (0.024) \cdot 6$$

$$I = \$792$$

2. Principal = \$47,300, Rate = 3%, Time = 4 months. What will that total principal + interest payment be?

$$\frac{4}{12} = \frac{1}{3} = (0.3)$$

$$I = p \cdot r \cdot t$$

$$I = 47,300 \cdot 0.03 \cdot (0.3)$$

$$I = \$425.70$$

$$47,300 + 425.70 =$$

$$\$47,725.70$$

3. Andrew borrows \$79,500 for 5 months on 6.30% interest rate in his saving account. Calculate the simple interest?

$$\frac{5}{12} = 0.42$$

$$I = p \cdot r \cdot t$$

$$I = 79,500 \cdot (0.063) \cdot (0.42)$$

$$I = 2103.57$$

4. Nelson lends \$4,650 on 2% interest rate. He plans to pay this after 2 months. What will that total principal + interest payment be?

$$\frac{2}{12} = \frac{1}{6} = 0.17$$

$$4650 + 15.81 = \$4665.81$$

$$I = p \cdot r \cdot t$$

$$I = 4650 \cdot (0.02) \cdot (0.17)$$

$$I = \$15.81$$

5. Principal = \$6,000, Rate = 7%, Time = 1 year. Calculate the simple interest?

$$I = p \cdot r \cdot t$$

$$I = 6000 \cdot (0.07) \cdot 1$$

$$I = \$420$$

6. Diana takes a loan of \$10,000 on 3% interest rate. She plans to pay the loan off after 2 years. Calculate the simple interest?

$$I = p \cdot r \cdot t$$

$$I = 10,000 \cdot (0.03) \cdot 2$$

$$I = \$600$$

7. Kelly borrows \$5,200 on 4% interest rate for 6 months. What will that total principal + interest payment be?

$$\frac{6}{12} = \frac{1}{2}$$

$$I = p \cdot r \cdot t$$

$$I = 5200 \cdot (0.04) \cdot (0.5)$$

$$I = \$104$$

$$5200 + 104 = \$5304$$

8. John wants to open a showroom for that he borrows \$48,000 on 12% interest rate. He plans to pay this after 4 years. What will that total principal + interest payment be?

$$I = p \cdot r \cdot t$$

$$I = 48,000 \cdot (0.12) \cdot 4$$

$$I = 23040$$

$$48,000 + 23040 = \$71,040$$

9. Principal = \$2,400, Rate = 2%, Time = 2 months. Calculate the simple interest?

$$I = p \cdot r \cdot t$$

$$I = 2400 \cdot (0.02) \cdot (0.17)$$

$$I = \$8.16$$

$$\frac{2}{12} = \frac{1}{6} = (0.17)$$

10. Bob takes a loan of \$7,000 on 5% interest rate for 5 months. Calculate the simple interest?

$$I = p \cdot r \cdot t$$

$$I = 7,000 \cdot (0.05) \cdot (0.42)$$

$$I = \$147$$

$$\frac{5}{12} = (0.42)$$

