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NAME _____

DATE _____

SIMPLE INTEREST: Worksheet 2

Using *I* = *prt*, find the following.

- Principal = \$4,900 Interest rate = 7% Time = 5 years
- 2) Principal = \$2,200 Interest rate = 9% Time = 30 months
- 3) Principal = \$15,400 Interest rate = 5.5% Time = 6 years
- 4) Noah & Susan borrowed \$105,000 to purchase their first home. The interest rate for this mortgage was 3.6%. The loan was set up for 25 years. How much interest will they pay over the 25 year time period?
- 5) Sandra borrowed \$5,800 to buy a used car. She plans to pay it back over 48 months with a 6% interest rate. What will Sandra's total cost be to purchase the car?

The GED <u>Pyramids</u> Shortcut Video #11 will explain how we arrive at the formulas below.

6)
$$p = \frac{I}{rt}$$
 Interest = \$1100 Interest rate = 11% Time = 2 years Find the principal.
7) $r = \frac{I}{pt}$ Principal = \$7,600 Time = 3.5 years Interest = \$2261 Find the Interest rate.

8)
$$t = \frac{I}{pr}$$
 Interest rate = 4% Principal = \$14,800 Interest = \$2,960 Find the time.

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KEY SIMPLE INTEREST: Worksheet 2

Using *I* = *prt*, find the following.

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- 1) Principal = \$4,900
 $I = 4,900 \times .07 \times 5$

 Interest rate = 7%
 I = \$1,715

 Time = 5 years
 I = \$2,200

 2) Principal = \$2,200
 $I = 2,200 \times .09 \times 2.5$

 Interest rate = 9%
 I = \$495

 Time = 30 months
 $I = 15,400 \times .055 \times 6$

 Interest rate = 5.5%
 I = \$5,082

 Time = 6 years
 I = \$5,082
- 4) Noah & Susan borrowed \$105,000 to purchase their first home. The interest rate for this mortgage was3.6%. The loan was set up for 25 years. How much interest will they pay over the 25 year time period?

 $I = 105,000 \times .036 \times 25$ I = \$94,500

5) Sandra borrowed \$5,800 to buy a used car. She plans to pay it back over 48 months with a 6% interest rate. What will Sandra's total cost be to purchase the car?

$I = 5,800 \times .06 \times 4$	Total = \$5,800 + Interest
<i>I</i> = \$1,392	<i>Total</i> = \$5,800 + \$1,392
	<i>Total</i> = \$7,192

The GED <u>Pyramids</u> Shortcut Video #11 will explain how we arrive at the formulas below.

6)
$$p = \frac{1}{rt}$$
 Interest = \$1,100 Interest rate = 11% Time = 2 years Find the principal.
 $p = \frac{1,100}{.11 \times 2} = $5,000$

7)
$$r = \frac{1}{pt}$$
 Principal = \$7,600 Time = 3.5 years Interest = \$2,261 Find the Interest rate.
 $r = \frac{2,261}{7,600 \times 3.5} = .085 = 8.5\%$
8) $t = \frac{I}{pr}$ Interest rate = 4% Principal = \$14,800 Interest = \$2,960 Find the time.
 $t = \frac{2,960}{14,800 \times .04} = 5yrs$