

Ted invests \$6300.00. His bank offers an investment option that earns **simple interest** at a rate of **2.8% per annum**. If Ted wants to make \$1411, how many years was the money invested?

$$I = 1411$$

$$P = 6300$$

$$r = 2.8\% \\ r = 0.028$$

$$t = ?$$

$$I = Prt$$

$$1411 = (6300)(0.028)t$$

$$\frac{1411}{176.4} = \frac{t(176.4)}{176.4}$$

$$8 = t$$

$$t = 8 \text{ years}$$

The interest earned on a deposit is \$3087.00 .  
If \$7000.00 was invested for 9 years, at what rate was the interest calculated?

$$I = Prt$$

$$3087 = (7000) r (9)$$

$$I = 3087$$

$$P = 7000$$

$$r = ?$$

$$t = 9$$

$$\frac{3087}{63000} = \frac{63000}{63000} r$$

$$0.049 = r$$

$$r = 0.049$$

$$r = 0.049 \times 100$$

$$r = 4.9\%$$