Complete all questions. Complete questions #4-10 on a separate sheet of paper

1.	Expres	ss the followir	ng interest ra	ates as (r) in the	simple interest	formula.
۵۱ ۵	20/	b) 4 50/	0) 1 25%	4) U 8E%	۵) 32%	

a) 6% b) 4.5% c) 1.25% d) 0.85% e) 32% r=0.045 r=0.0125 r=0.085 r=0.32

2. Express the following lengths of time a(t) in the simple interest formula.

a) 18 months b) 16 weeks c) 88 days d) 4 years e) 52 weeks $t = \frac{3}{2} \left(\frac{18}{13} \right) + \frac{16}{52} \left(\frac{18}{13} \right) + \frac{88}{365}$ t = 4 t = 523. Complete the following chart.

	Principal (\$)	Interest rate %	Time	Interest Earned (\$)	Total Amount (\$)
工=2000(0.045)(是)	2000	4.5	3 months=4a	22,50	2022.50
T= 580 (0,005)(3)	550	0.5	36 months = 3a	8.25	558,25
_ 320 + (1500 x 0.01)	91500	1.5	14.2a = 14a. 81 day	_s 320	1820.00
P-100+ (0,072×16+5	12)4513.89	7.2	16 weeks	100	4613.89
== 275- (2500 × 1.5)	2500	7当	18 months	275	2775,00
a - (0.0615x240	4365 1239,201	6.75	240 days	55	1294.20
- 1251-1100@x6-52	510000 ("// 83/s)	10 6 % 9	6 weeks	125	10 125,00
6- + (780×0,013)	780	1.3	5a - 263 days	58	838.00.
K= 17(180,0,0)				5 15	

4. \$300 is invested for 2.5 years at 6% simple interest. How much interest is earned? T = 300(0.06)(2.5) = 45

5. Joe borrowed \$500 from his parents to buy an ipod. They charged him

~ 2.5% simple interest. He paid them back in 14 months. How much

interest did he pay them? How much did he pay them in total?

I = 500(0,025)(14:12) = 14.58

6. Peter invested in a GIC that paid 3.25% simple interest. In 36 months, he earned \$485. How much did he invest originally?

P= 485 ÷ (0.0325 x3) = 4974.36 : he invested 44974.36.

8. Kadeem's investment matured from \$1300 to \$1750. It was invested at a simple interest rate of 4.25%. How long was it invested for?

P=1300 I = 450 to 450 to 1300 x 0.0425 = 8,14 => 8 years 53 days.

9. \$4500 was invested at a 5\frac{3}{8}% simple interest for 300 days. How much interest was earned? What was the total amount of the investment?

I = 4500 (0.05375)×300÷365 = 198.80

10.\$600 is invested at 4% simple interest for 2 years.

a) How much interest is earned? 600(0,04)(2) = \$48 | Herest.

b) If the interest rate is doubled to 8% is the interest earned doubled? yes.

c) If the time was doubled to 4 years, would the interest earned be doubled? yes.