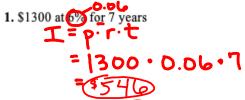


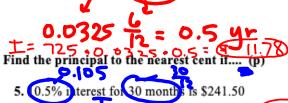
### Lesson 6 Homework Practice

### Simple and Compound Interest

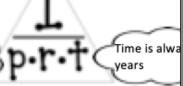
\*\*Calculators OK.\*\*

Find the simple interest to the nearest cent. (I)





Percent is written as a decimal



2. \$250 at 8% for 9 months

Find the simple interest rate to the nearest tenth of a percent if... (r)

7. my interest on \$22,800 after 33 months is \$5831.10

$$r = \frac{I}{p + t} = \frac{5831.10}{22800.(\frac{33}{12})} = 0.093 = 9.37.$$

Find the time period (in years) if... (t)

8. my interest on \$875 after 3 months is \$5.03

$$r = \frac{I}{\rho \cdot t} = \frac{5.03}{875 \cdot (\frac{3}{12})} = 0.023 = 2.3\%$$

9. my interest on \$550 at 5.75% is \$126.50

$$t = \frac{\Gamma}{\rho \cdot r} : \frac{126.50}{550 \cdot 0.0575} = 4 \gamma r$$

$$t = \frac{1}{\rho \cdot r} = \frac{8121.75}{54,600 \cdot 0.0425} = 8.5 \text{ gr}$$

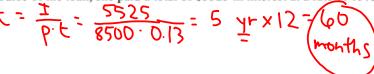
11. Lane borrowed \$1200 for a new drum set. She will be paying 6.5% in simple interest over the next 2 years. What is the total amount of interest she will be paying on the loan?

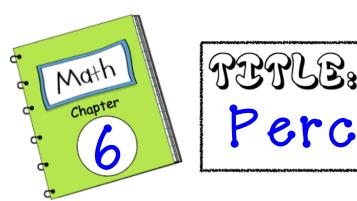
12. Luke puts \$4800 in a savings account. He earns \$16 each month for the next 60 months. Find the simple interest r for his savings account. Ist grestion: How much is I? I = \$1606 = \$960

Now I can use formula: r = \frac{1}{pt} = \frac{960}{4800.5} = 0.04 = \frac{47}{1}

Now I can use formula: 
$$r = \frac{960}{Pt} = \frac{960}{4800.5} = 0.04 = 4.7.$$

13. Toya has a car loan of \$8500. Over the course of the loan, she paid a total of \$5525 in interest at a rate of 13%. How many months was the car loan?





# rerus: Percents

Date	Lesson	Topic/Assignment
1-4	1	Using Percent Proportion Video Notes
1-5	I	HOMEWORK: HW Prac WS
1-5	1	GLASSWORK: Pg253 WS
1-6	2	Finding Percent Mentally Video Notes
1-7	2	HOMEWORK: Skills WS
1-7	2	CLASSWORK: Extra Practice WS
1-8	2	10% Rule Video Notes
I- I I	3	Using Percent Equation Video Notes
1-12	3	HOMEWORK: Magnolia Riddle WS
1-12	3	CLASSWORK: Practice WS 6 Boxes
1-14	1-3	CLASSWORK: Reteach Packet
1-19	5	Discount and Markup Video Notes
1-20	5	CLASSWORK: Pg277 WS
1-25	5	CLASSWORK: Polka Dot Task Cards
1-27	6	Simple Interest Video Notes
1-28	6	HOMEWORK: Pg283 #1-4 and #10-15
1-29	6	HOMEWORK: HW Practice WS
1-29	6	CLASSWORK: Simple Interest Task Cards

Name	Note
Name	Date

#### HOUSES FOR SALE!

You are thinking of becoming a realtor and want to learn more about the prices of houses in the Greensboro area.

Look up house listings in or around Greensboro and find four houses with a wide variety of prices that interest you. On the following pages, fill out the requirements listed. We will do an example of how to calculate this information with an example listing below:

Determine how much commission you would make if the house sold for the original price and you get paid a 6% commission.

Determine the commission if you sold the house after a 10% decrease of the original cost.

Amount of decrease = 10% of 100,000 = \$10,000

New price = \$100,000 - 10,000 = \$5,400

New commission if you sold the house after a 10% decrease of the original cost.

Amount of decrease = 10% of 100,000 = \$10,000

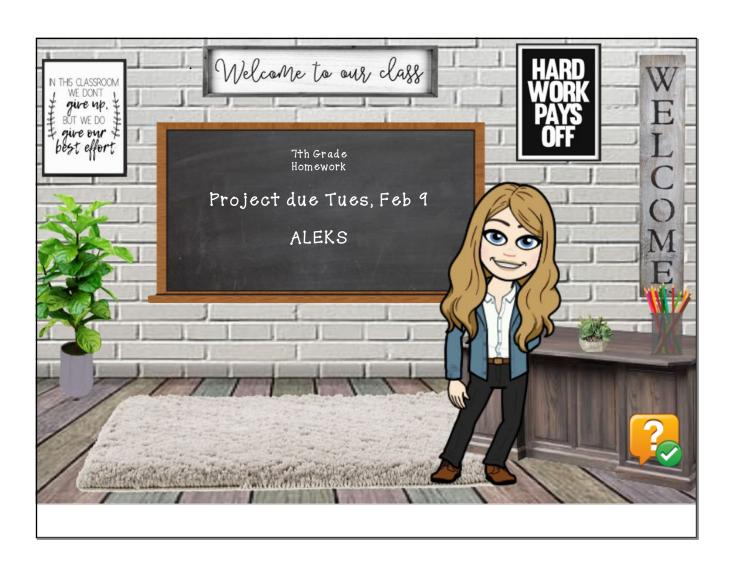
New price = \$100,000 - 10,000 = \$5,400

Determine how much the new buyers will actually pay for the house when you factor in a mortgage with simple interest of 4.1% for 30 years. I = 100,000 0.041. 30

I = price time

Thought care a decimal your barrows are a decimal your barrows.

Use this example to complete the following four pages. Then follow the directions on the last page to show your creativity and extend your thinking! :)



## In-class activity: Simple Interest Task Cards

If you borrow \$675
for six years at an interest rate of 10%, how much interest will you pay?

| #2
| How much interest is earned on \$470 at 4% for 7 years?

