

7th Grade  
Jan 28, 2021

Today we will:

- review HW
- review rest of video notes and do some examples finding p, r, and t
- begin HW



HOMEWORK:

6-6 HW Practice WS

ALEKS assignment:  
60 min and 5 topics  
due Monday by  
11:59pm



**HOMEWORK**



Name \_\_\_\_\_

Unit \_\_\_\_ Lesson \_\_\_\_\_ Due Date \_\_\_\_\_

Show your work on the lines UNDER THESE PROBLEMS. You will not get credit for doing the homework if you do not show work. LABEL each problem and go down the left margin.

**Guided Practice**

Find the simple interest. Round to the nearest cent, if necessary. (Example 1)

1. \$1350 at 6% for 7 years **\$567**

0.06

2. \$240 at 8% for 9 months **\$14.40**

0.08

$\frac{9}{12} = 0.75 \text{ yr}$



3. \$725 at 3.25% for 5 years **\$117.81**

0.0325

4. \$3750 at 5.75% for 42 months **\$754.69**

0.0575

$\frac{42}{12} = 3.5 \text{ yr}$

②  $I = p \cdot r \cdot t$   
 $= 240 \cdot 0.08 \cdot 0.75$   
 $= \$14.40$

④  $I = 3,750 \cdot 0.0575 \cdot 3.5$   
 $= \$754.69$

**Independent Practice**

Go online for Step-by-Step Solutions



Find the simple interest. Round to the nearest cent, if necessary. (Example 1)

10. \$275 at 7.5% for 4 years **\$82.50**

11. \$620 at 6.25% for 5 years **\$193.75**

12. \$734 at 12% for 3 months **\$22.02**

0.075  
 $734 \cdot 0.12 \cdot (\frac{3}{12} = 0.25)$

13. \$2020 at 8% for 18 months **\$242.40**

14. \$1200 at 6% for 36 months **\$216**

1.5  
 $1200 \cdot 0.06 \cdot 3$

15. \$4380 at 10.5% for 2 years **\$919.80**

Simple Interest

Example 1

Find interest.  
\$3,750 at 5.75%  
for 4 years

A triangle diagram with 'I Interest' at the top vertex. The left side contains 'p principle'. The middle contains 'r rate (as a decimal)'. The right side contains 't time (in years)'. A red square is drawn over the dot between 'r' and 't'. Below the triangle, the formula  $I = p \cdot r \cdot t$  is written inside a cloud-like shape.

Example 1

Find interest.

\$3,750 at 5.75%  
for 4 years

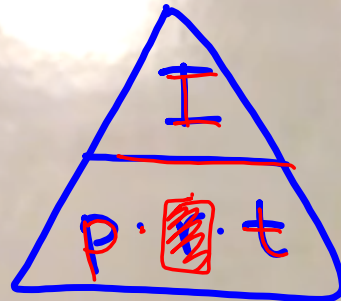
$$\begin{aligned} I &= p \cdot r \cdot t && \underbrace{05.75} \\ &= 3,750 \cdot 0.0575 \cdot 4 \\ &= \$862.50 \end{aligned}$$

Example

$$p = 2,400$$

$$t = 5 \text{ years}$$

$$I = \$552$$



Find rate.  $r = \frac{I}{p \cdot t} = \frac{552}{2,400 \cdot 5}$

$$= 0.046$$

$$= \textcircled{4.6\%}$$

Example 3

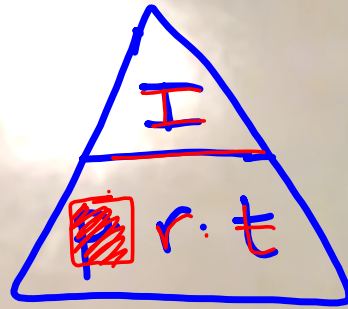
$$p = ?$$

$$I = 562$$

$$t = 6 \text{ years}$$

$$r = 5,25\% = 0.0525$$

$$p = \frac{I}{rt} = \frac{562}{0.0525 \cdot 6} = 1,784.13$$



## More Simple Interest Examples:

Jan 28

Find p:

$$I = \$279, t = \frac{30}{12} = 2.5 \text{ yr}, r = 6\%$$

$$p = \frac{I}{r \cdot t} = \frac{279}{(0.06 \cdot 2.5)} = \frac{279}{0.15} = \$1,860$$

Find r:

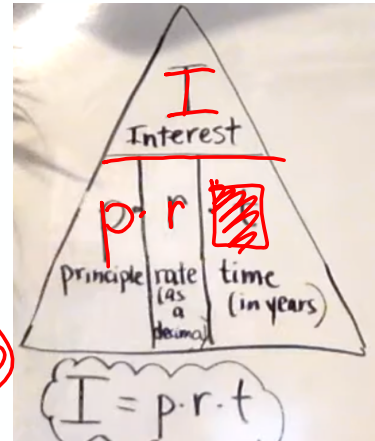
$$p = \$1280, I = \$57.60, t = 2 \text{ yrs}$$

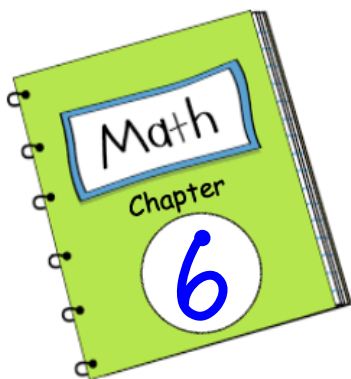
$$r = \frac{I}{p \cdot t} = \frac{57.60}{1,280 \cdot 2} = 0.0225 = 2.25\%$$

Find t:

$$p = \$1350, r = 6\%, I = \$567$$

$$t = \frac{I}{p \cdot r} = \frac{567}{1350 \cdot 0.06} = 7 \text{ years}$$





# TITLE: Percents



Date	Lesson	Topic/Assignment
1-4	1	Using Percent Proportion Video Notes
1-5	1	HOMEWORK: HW Prac WS
1-5	1	CLASSWORK: 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
1-11	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

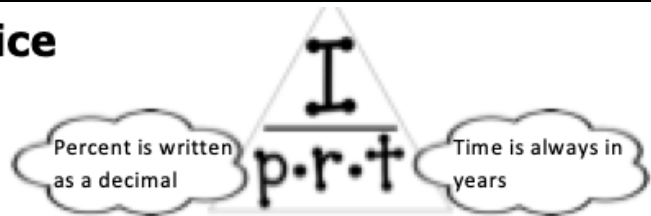




## Lesson 6 Homework Practice

### Simple and Compound Interest

\*\*Calculators OK.\*\*



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

1. \$1300 at 6% for 7 years

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

$$= 1300 \cdot 0.06 \cdot 7$$

2. \$250 at 8% for 9 months

$$0.08 \quad \frac{9}{12} = 0.75 \text{ yr}$$

3. \$725 at 3.25% for 6 months

$$0.0325 \quad \frac{6}{12} = 0.5 \text{ yr}$$

4. \$1900 at 5.5% for 36 months

$$0.055 \quad \frac{36}{12} = 3 \text{ yr}$$

Find the principal to the nearest cent if... (p)

5. 10.5% interest for 30 months is \$241.50

$$P = \frac{I}{rt} =$$

6. 13% interest for 54 months is \$643.50

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

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

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

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

10. My interest on \$54,600 at 4.25% is \$8121.75

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 rate for his savings account.