

Unit 6 Employment Review

Name Key Date _____ Per _____

- 1) Leslie is looking for a new job in government that pays \$56,400 per year. What would her bi-weekly salary be to the nearest cent?

$$56400 \div 26 = \boxed{\$2169.23}$$

- 2) Andy got a new job through Valley Employment Service. The job pays \$51,000 per year, and the employment agency fee is equal to 35% of one month's pay. How much does Andy have to pay the agency?

$$51,000 \div 12 = \$4250 \text{ per month}$$

$$35\% \text{ of } 4250 = .35(4250) =$$

$$\boxed{\$1,487.50 \text{ to the agency}}$$

- 3) April earns \$12.25 an hour at the Parks and Recreation Department. She regularly works 35 hours a week but is paid time and a half for each hour of overtime she works. What was her gross pay last week if she worked 46 hours?

$$12.25(35 \text{ hrs}) = \$428.75 \text{ reg. pay}$$

$$12.25(1.5) = \$18.38/\text{hr time and a half}$$

$$18.38(11 \text{ hrs}) = \$202.18 \text{ overtime}$$

$$428.75 + 202.18 = \boxed{\$630.93 \text{ total gross pay}}$$

- 4) Ann worked her 40 regular hours last week at the hospital plus 5 overtime hours at time and a half rate. Her gross pay was for the week \$451.25. What was her hourly rate?

$$40x + 5(1.5x) = 451.25$$

$$40x + 7.5x = 451.25$$

$$\frac{47.5x}{47.5} = \frac{451.25}{47.5}$$

$$\boxed{x = \$9.50 \text{ per hour}}$$

- 5) The Price King Auto Mall pays their sales staff by commission. They are paid a percent of the profit the dealership makes on each sold car. If the profit is \$900 or less, the commission is 18%. If the profit is over \$900, the commission is 22%. Joey sells a car for a \$1,200 profit and Ray sells a car for an \$875 profit. How much more money will Joey make than Ray?

Joey 22%

$$.22(1200) = \$264 \text{ commission}$$

Ray 18%

$$.18(875) = \$157.50 \text{ commission}$$

$$\boxed{\text{Joey makes } \$106.50 \text{ more from his sale.}}$$

- 6) Tom starts creating his own line of Sparkle Soap, laundry detergent with glitter in it. He sells them to a local Spa Store for a piecework rate of \$18 per unit. Last week he created 45 bottles. How much money did he earn?

$$\boxed{\$18(45) = \$810 \text{ last week}}$$

- 7) Ron receives a total piecework paycheck of \$648. He receives \$54 per unit produced for his handcrafted mahogany chairs. How many chairs did he produce?

$$648 \div 54 = \boxed{12 \text{ chairs produced}}$$

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Advance Math

Name _____ Date _____ Per _____

- 8) Ben contributes 12% of the total cost of his health care coverage. If he pays \$16.25 per week towards this contribution, what is the total value of his health care coverage for the year? How much of his total coverage does his employer cover?

$16.25 (52) = 845$ total contributions

845 is 12% of X

$845 = .12X$
 $\frac{845}{.12} = \frac{.12X}{.12}$

$X = \$7,041.67$ total value

7041.67
 $- 845.00$

$\$6,196.67$ is employer contribution

- 9) When Chris started his job, he was told that he would receive two vacation days at the end of the first year. After each year worked, his vacation days would double to not exceed 25 days of vacation. How many vacation days will he have earned after 4 years? How many years will it take him to max out his vacation days?

Years	Days
0	0
1	2
2	4
3	8
4	16

After 4 years, he will have 16 vacation days. By year 5 he will have reached his maximum amount.

- 10) Leslie works for the government. Because she is a workaholic, she is finally retiring after 40 years of employment. Her government pension plan will be 1.2% of her average salary for the last four years of employment for every year worked. Leslie's last four yearly salaries have been: \$75,000, \$76,100, \$80,000, and \$82,500. Calculate the pension payment she will receive each year after retirement.

Average:

$\frac{75000 + 76100 + 80000 + 82500}{4}$

$= \$78,400 (.012)(40) = \$37,632$

She will receive \$37,632 every year after retirement until she dies.

- 11) In 2001, the Social Security percentage was 6.2% for a maximum income of \$78,400. The Medicare percentage was 1.45% of the total income earned. Ben made \$87,000 as a campaign manager in Washington D.C. that year.

- a) How much did he pay towards Medicare?

$87,000 (.0145)$

$\$1,261.50$ towards Medicare that year

- b) What was his monthly income?

$\frac{87,000}{12} = \$7,250$ per month

- c) How much did he pay towards Social Security in January?

$7250 (.062) = \$449.50$ to SS in Jan.

- d) At what month did he reach his maximum taxable income?

$\frac{78400}{7250} = 10.81$ In the 11th month (November)

- e) How much Social Security did he pay during that month?

$\$7,250 (10 months) = 72,500$

- f) How much Social Security did he pay in December?

None

$78400 - 72500 = \$5,900 (.062) =$

max - current = still taxable

$\$365.80$ in Nov.