

Alternate Ways to Make Money

Self-employed a person who works for themselves instead of an employer

piecework someone who gets paid a set amount for each piece produced/made (artist, fruit picker, tree planter)

commission an amount of money, usually a % paid to someone for a business transaction (sales → car sales, real estate)

contract a legal agreement that outlines conditions and payment for work to be done

Ex 1.

Greg works as a tree planter during the summer and earns his income through piecework. He is paid \$0.23 for each seedling he plants. If he plants 1245 seedling in a day how much will he earn?

$$\frac{\$0.23}{1 \text{ tree}} = \frac{x}{1245 \text{ trees}}$$

$$x = 0.23 \times 1245 \div 1 = \$286.35$$

Show you know

Selena knits sweaters and sells them. She has been hired to knit sweaters for a team of curlers. There are 10 people on the team. She charges \$75.50 for a large sweater and \$69.75 for a medium sweater. How much will she earn if she knits 6 large and 4 medium sweaters.

$$\begin{array}{l} L \\ \frac{75.50}{1L} = \frac{x}{6L} \end{array}$$

$$x = 453$$

$$\begin{array}{l} M \\ \frac{69.75}{1M} = \frac{x}{4M} \end{array}$$

$$x = 279$$

$$\begin{array}{c} \diagup \quad \diagdown \\ + \\ = \$732 \end{array}$$

Ex 2

Ming works in a store that sells Chinese furniture. He works on commission at a rate of 6.5% on his gross sales. If he sold \$9865.00 worth of furniture last week, how much commission did he earn?

$$\frac{\text{part } 6.5}{\text{total } 100} = \frac{x}{\$9865.00}$$

$$x = 6.5 \times 9865 \div 100 = \$641.23$$

Show you know

Peter works in a sporting goods store and earns 12% commission on his sales. How much does he make if he sells a bicycle worth \$785.95?

$$\frac{12}{100} = \frac{x}{\$785.95}$$

$$x = 785.95 \times 12 \div 100 = \$94.31$$

Ex 3

When selling a home, a real estate agent makes 5% commission on the first \$250,000 of the home's selling price and 2% on any amount over that. How much will Sue make if she sells a house worth \$375,900.00

$$\frac{5}{100} = \frac{x}{\$250,000}$$

$$x = \$12,500$$

$$375,900 - 250,000$$

$$= 125,900$$

$$\frac{2}{100} = \frac{x}{\$125,900}$$

$$x = \$2518$$

$$\text{Total commission} = \$2518 + \$12,500 = \$15,018$$

Show you know

Dan sells electrical equipment. He makes a graduated commission on his total monthly sales. He makes 2% on the first \$30,000 of sales and 3% on any amount over that. Last month, he sold \$38,985.00 worth of merchandise. What was his total commission?

\$600

269.55

\$869.55

Ex 4

Tina earned \$416.03 commission on his sales of \$9425.00. What was his rate of commission?

$$\frac{x}{100} = \frac{\$416.03}{\$9425.00}$$

$$x = 416.03 \times 100 \div 9425.00 = 4.41\%$$

Ex 5

Vince is bidding on a contract to lay concrete for a patio. He decides to calculate his actual costs and then add 20% profit for himself. He needs 3 cubic yards of concrete at \$200.00 per cubic yard delivered. He needs to pay 2 employees \$18.50/h each for 6.5 hours to do the job. What should he charge the client?

Concrete

$$\frac{\$200}{1 \text{ yd}} = \frac{x}{3 \text{ yd}}$$

$$x = \$600$$

Labor

$$\frac{\$18.50}{1 \text{ hr}} = \frac{x}{13 \text{ hrs}}$$

$$x = \$240.50$$

$$6.5 \text{ hr} \times 2 = 13 \text{ hrs}$$

Profit

$$\frac{20}{100} = \frac{x}{\$840.50}$$

$$x = \$168.10$$

$$\$600 + 240.50 = \$840.50$$

$$\text{Total Contract amount} = \$840.50 + \$168.10 = \underline{\underline{\$1008.60}}$$

Show you know

Harold is a painting contractor. He negotiates a contract with a homeowner to paint the exterior siding on a house at a rate of \$30.00/h plus the cost of materials. It takes Harold six 8-hour days to prepare and paint the siding, and he uses 15 gallons of paint that cost \$45.00 each. Harold wants to make 15% profit on this job. What is the total value of the contract?

\$ 2432.25