



Piecework

Vocab:

Piecework -

paid by the unit

LESSON
1.4**EXAMPLE 1**

Ramon Hernandez silk-screens prints for a local artist who pays \$4 for each print he completes. Last week he silk-screened 75 prints. This week he completed 71. What is his pay each week?

	Rate per Item	×	Number Produced	=	Total Pay
Last Week	\$4	×	75	=	\$300
This Week	4	×	71	=	\$284

A graphic with a blue and red background containing the text "LESSON 1.4".

LESSON
1.4

Find the total pay. Check your answers in the back of the book.

1. \$3.20 per item, 140 items produced

$$3.20 (140) = \$448$$

2. \$0.15 per item, 1,494 items produced

$$0.15(1494) = \$224.10$$

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EXAMPLE 2 Algebra

The Sunscreen Company, LLC, sells and installs window film for automobiles. Sara Miller manages one Sunscreen shop. She reports that during the past week, her shop applied window film to 19 autos. It charges \$179.99 for a four-door sedan and \$149.99 for a two-door coupe. Sara reports that \$3,209.81 in total receipts had been collected. In that week, how many (a) four-door sedans and (b) two-door coupes had been serviced?

$$179.99s + 149.99(19-s) = 3209.81$$

$$179.99s + 2849.81 - 149.99s = 3209.81$$

$$30s + 2849.81 = 3209.81$$

$$-2849.81 \quad -2849.81$$

$$30s = 360$$

$$\frac{30s}{30} = \frac{360}{30}$$

$$s =$$

12 sedans

7 coupes

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Complete the problems. Check your answers in the back of the book.

3. Copy Center charges 8¢ a page for machine-fed copies and 20¢ per page for hand-fed copies. If Logan Kaminski's bill for 80 copies of his movie script is \$13.00, how many copies of each type were made?

$$0.08m + 0.20(80 - m) = 13$$

$$0.08m + 16 - 0.20m = 13$$

$$-0.12m + 16 = 13$$

$$\begin{array}{r} -0.12m = -3 \\ \hline -0.12 \quad -0.12 \end{array}$$

$$m = 25 \text{ m.fed}$$

$$80 - 25 = 55 \text{ h.fed}$$


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Complete the problems. Check your answers in the back of the book.

4. Mary Tuttle owns a carpet-cleaning business. She charges \$67.95 for a two-bedroom house and \$82.25 for a three-bedroom house. Last month the company had gross receipts of \$4,413.00 for cleaning carpet in 8 more three-bedroom houses than two-bedroom houses. How many of each type did the company clean?

$$67.95(x) + 82.25(x+8) = 4413$$

$$67.95x + 82.25x + 658 = 4413$$

$$150.20x + 658 = 4413$$

$$\begin{array}{r} -658 \\ \hline 150.20x = 3755 \end{array}$$

$$\frac{150.20x}{150.20} = \frac{3755}{150.20}$$

$$x = 25 \text{ 2-bed}$$

$$33 \text{ 3-bed}$$

$$25 + 8$$