

Fencing

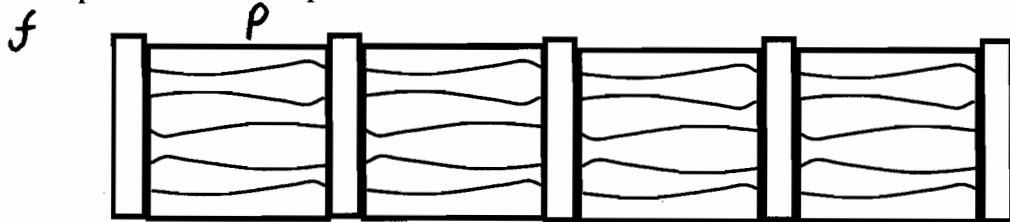
J1

This problem gives you the chance to:

- interpret given information
- choose and use an appropriate method to solve a problem

Jon buys fencing for his yard.

He pays \$122 for 5 fence posts and 4 fence panels.

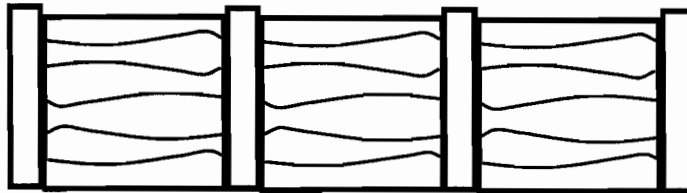


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.



$$\begin{array}{r}
 5f + 4p = 122 \quad \times 5 \\
 - 21f + 20p = 570 \\
 \hline
 25f + 20p = 610 \quad \swarrow \\
 \hline
 4f + \cancel{0p} = 40 \\
 f = 10 \quad \checkmark
 \end{array}$$

40 + 3.18

$$\begin{array}{r}
 5 \cdot 10 + 4p = 122 \\
 4p = 122 - 50 = 72 \div 4 \\
 p = 18 \quad \checkmark
 \end{array}$$



Fencing

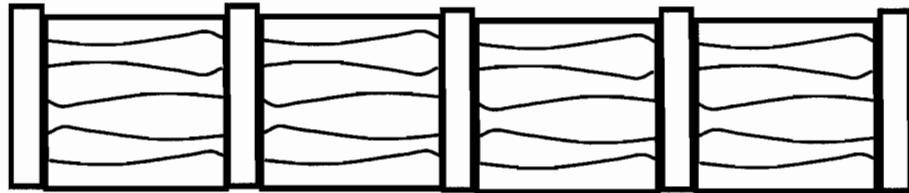
T2

This problem gives you the chance to:

- interpret given information
- choose and use an appropriate method to solve a problem

Jon buys fencing for his yard.

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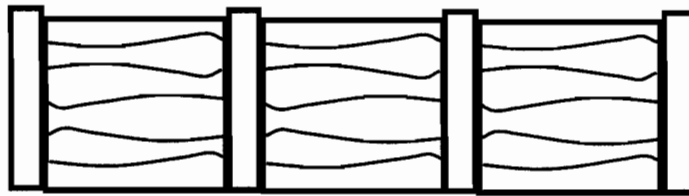


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

112 \$

Show how you figured it out.



$$122/2 = 61/5 = 12.2$$

$$5 \cdot 12 = 60 \quad 122 - 60 = 62 \quad 62/4 = 15.5 \quad \times$$

$$5 \cdot 11 = 55 \quad 122 - 55 = 67 \quad 67/4 = 16.75 \quad \times$$

$$5 \cdot 10 = 50 \quad 122 - 50 = 72 \quad 72/4 = 18 \quad \checkmark$$

$$21 \cdot 10 + 20 \cdot 18 = 570 \quad \checkmark$$

$$40 + 4 \cdot 18 = 112$$

Fencing

T3

This problem gives you the chance to:

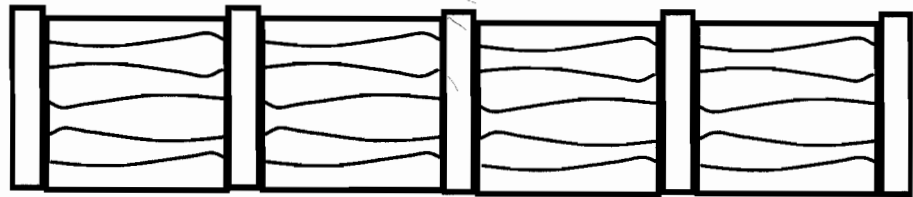
- interpret given information
- choose and use an appropriate method to solve a problem

Jon buys fencing for his yard.

He pays \$122 for 5 fence posts and 4 fence panels.

$$5x + 4y = 122$$

$$5(14) + 4(13) = 122$$

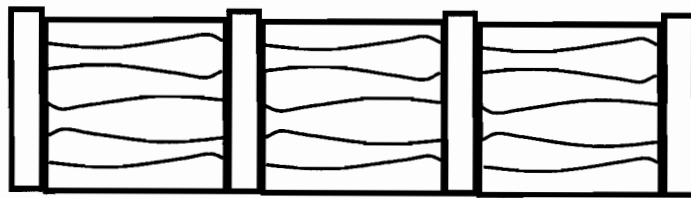


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

$$\underline{94\$}$$

Show how you figured it out.



$$\begin{array}{r} 21x + 20y = 570 \\ 5x + 4y = 122 \\ \hline -5x \qquad -5x \\ \hline 4y = 122 - 5x \\ \hline y = 30.5 - \frac{5}{4}x \end{array}$$

$$\cancel{21(14) + 20(13) = 554}$$

$$21(10) + 20(18) = 570$$

$$\begin{array}{l} x = 10 \\ y = 18 \end{array}$$

9

Fencing

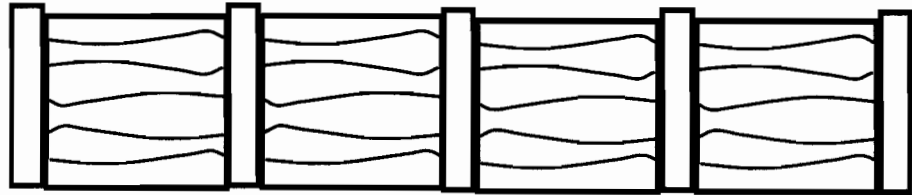
T4

This problem gives you the chance to:

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- choose and use an appropriate method to solve a problem

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He pays \$122 for 5 fence posts and 4 fence panels.

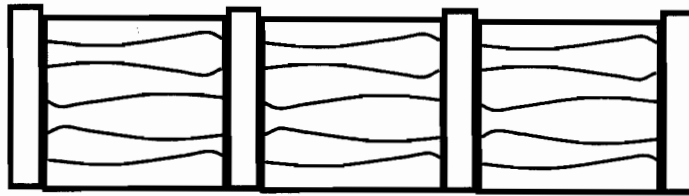


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

94

Show how you figured it out.



$$13 \times 5$$

$$14.25$$

$$21x + 20x = 570$$

$$5x + 4x = 122$$

$$9x = 122$$

$$\text{posts} = \cancel{16} \ 10$$

$$\text{panels} = \cancel{8} \ 10.5 \ 18$$

$$\text{posts} = 10 \checkmark$$

$$\text{panels} = 18 \checkmark$$

9

Fencing

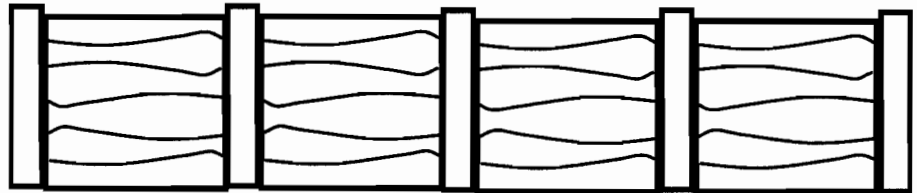
T5

This problem gives you the chance to:

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He pays \$122 for 5 fence posts and 4 fence panels.



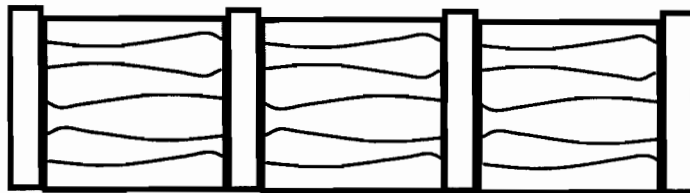
He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

$$\underline{\$40 + \$54 = \$94}$$

Show how you figured it out.

$$\begin{array}{r} 10 \cdot 5 = 50 \\ - 122 \\ \hline 72 \\ \frac{72}{4} = 18 \end{array}$$



$$10 \times 21 = 210$$

$$18 \times 20 = 360$$

$$\underline{\$570}$$

$$10 \cdot 4 = 40 + (3 \times 18)$$

$$40 + 54 = \underline{\$94}$$

Fencing

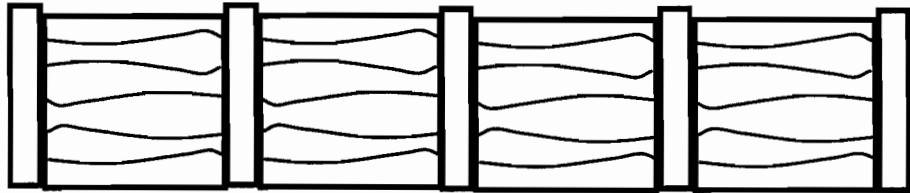
S1

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He pays \$122 for 5 fence posts and 4 fence panels.

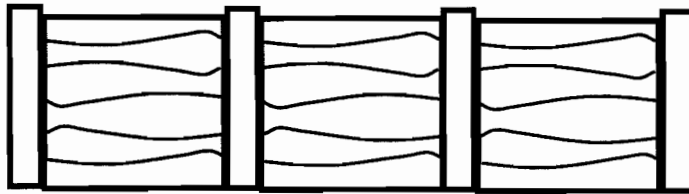


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.



$$122 = 5x + 4y$$

$$5 \times 10 = 50$$

$$4 \times 18 = 72$$

$$122$$

$$570 = 21x + 20y$$

$$21 \times 10 = 210$$

$$20 \times 18 = 360$$

$$570$$

$$? = 4x + 3y$$

$$4 \times 10 = 40$$

$$3 \times 18 = 54$$

$$94$$

Fencing

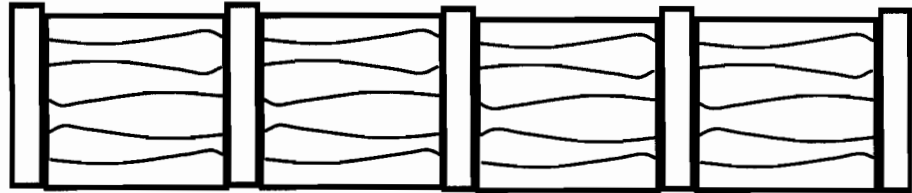
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This problem gives you the chance to:

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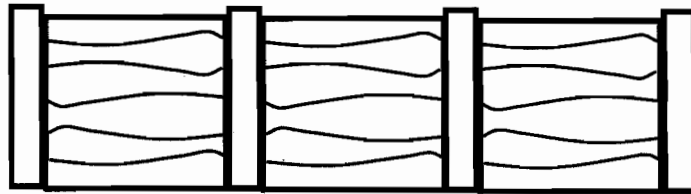


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$102

Show how you figured it out.



$$\begin{aligned} 122 &= 5x + 4y & \xrightarrow{\cdot 5} & 610 = 25x + 20y \\ 570 &= 21x + 20y & \xrightarrow{-} & 570 = 21x + 20y \\ \hline & & & 40 = 4x \\ & & & 10 = x \\ 122 &= 50 + 4y \\ 4y &= 72 \\ y &= 18 \end{aligned}$$

$$4 \cdot 18 + 3 \cdot 10 = 102$$

Fencing

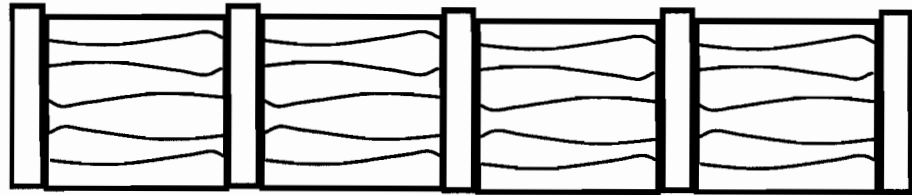
S3

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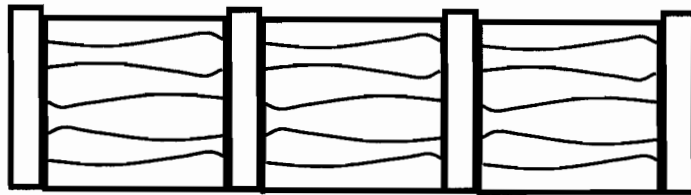


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

94 \$

Show how you figured it out.



$$5x + 4y = 122$$

I tried it on my calculator!



Fencing

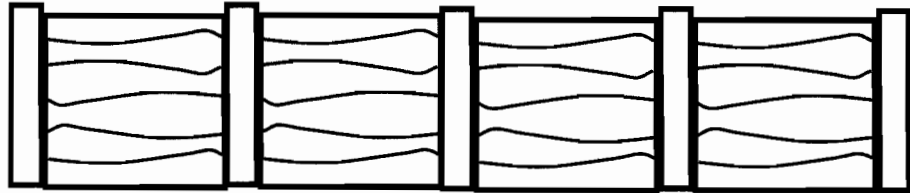
S4

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He pays \$122 for 5 fence posts and 4 fence panels.

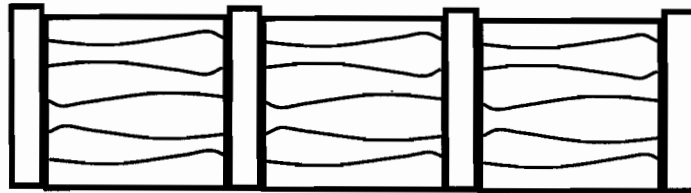


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.



~~$8s = 40$~~
 ~~$9s = 45$~~
 $10s = 50$

~~$122 - 122 = 82/4$~~
 ~~$122 - 50 = 77/4$~~
 $122 - 50 = 72/4 = 18$

$4 \cdot 10 + 3 \cdot 18$

Fencing

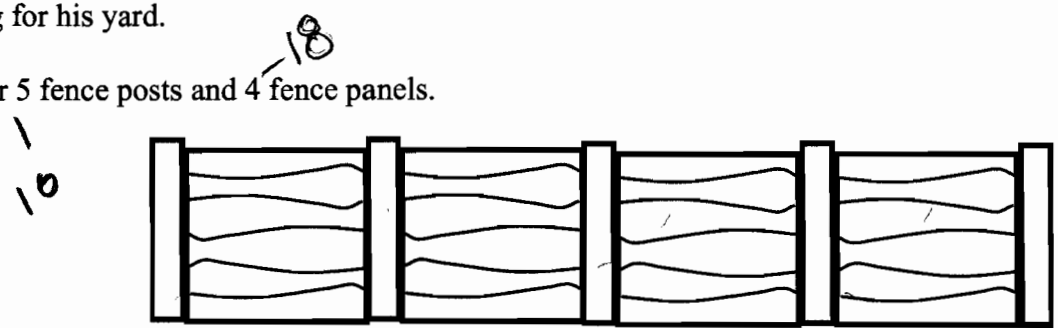
S5

This problem gives you the chance to:

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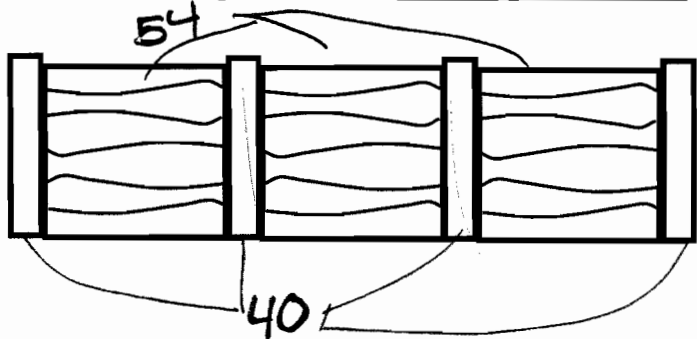
210

He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.



each panel is 10\$
each pole is 10\$

$$\begin{array}{r} 54 \\ + 40 \\ \hline 94 \end{array}$$

Fencing

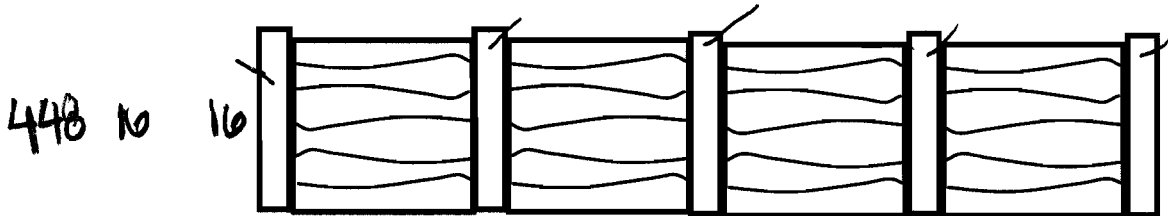
S6

This problem gives you the chance to:

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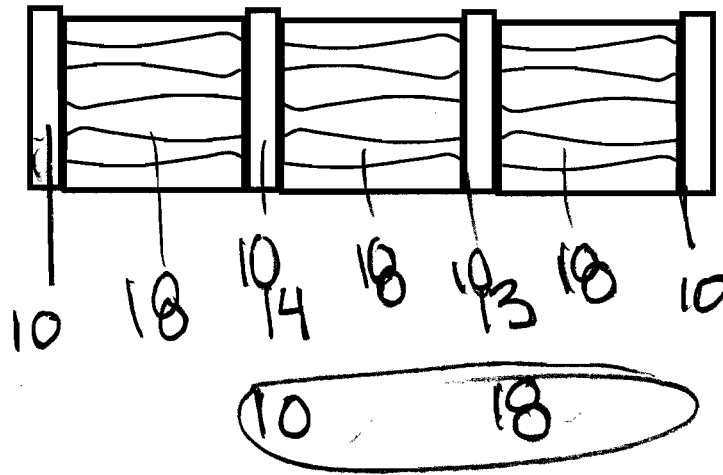


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.



$$\begin{aligned}
 5p + 4a &= 122 \\
 -4a &= -4a \\
 \hline
 5p &= 122 - 4a \\
 \frac{5p}{5} &= \frac{122 - 4a}{5} \\
 p &= 24.4 - \frac{4}{5}a
 \end{aligned}$$

Fencing

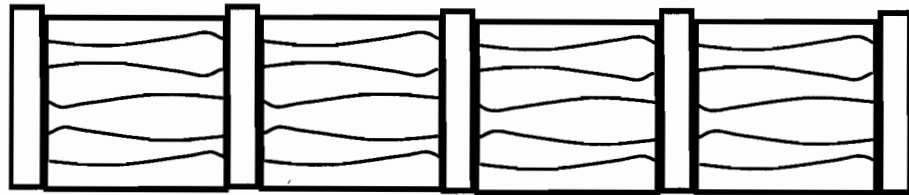
S7

This problem gives you the chance to:

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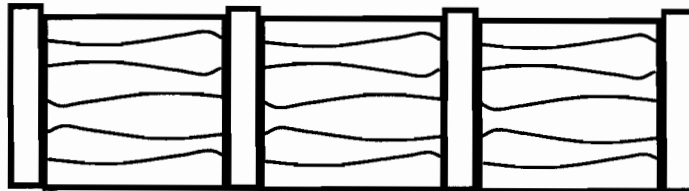
He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94

Show how you figured it out.

$4 \cdot 10 + 3 \cdot 18$



$$\begin{array}{r}
 5x + 4y = 122 \quad \checkmark \\
 21x + 20y = 570 \quad \checkmark \\
 - 5x + 4y = 122 \\
 \hline
 16x + 16y = 448 \\
 - 5x + 4y = 122 \\
 \hline
 11x + 12y = 326 \\
 - 5x + 4y = 122 \\
 \hline
 6x + 8y = 204 \\
 - 5x + 4y = 122 \\
 \hline
 1x + 4y = 82
 \end{array}$$

$$\begin{array}{r}
 1x + 4y = 82 \\
 - 5x + 4y = 122 \\
 \hline
 -4x = -40 \\
 x = 10 \quad \checkmark
 \end{array}$$

$$\begin{array}{r}
 50 + 4y = 122 \\
 4y = 72 \\
 y = 18
 \end{array}$$

Fencing

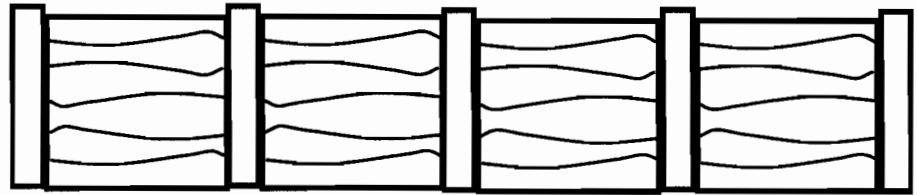
S8

This problem gives you the chance to:

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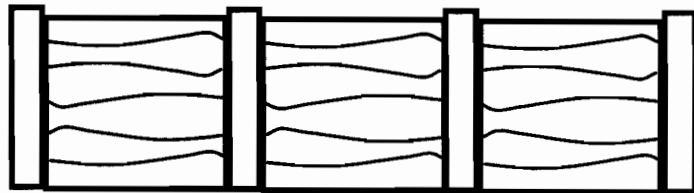


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$95

Show how you figured it out.



$$10 \times 5 + 18 \cdot 4 = 122 \checkmark$$



Fencing

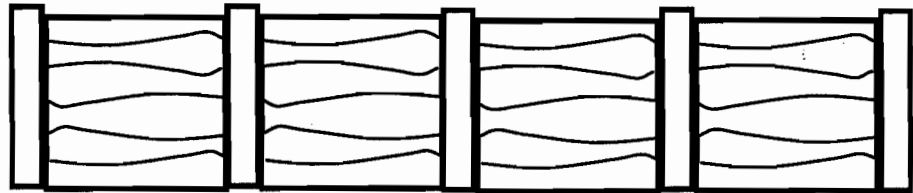
S9

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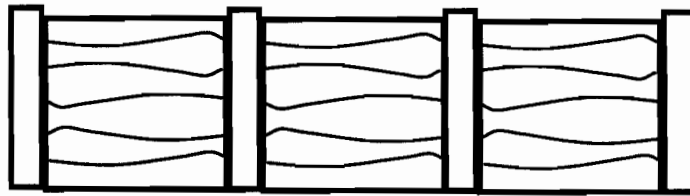


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$100

Show how you figured it out.



$$5x + 4y = 122 \checkmark$$

$$4y = 122 - 5x$$

$$y = 30.5 - \frac{5}{4}x$$

$$x = 10 \checkmark$$

$$y = 30.5 - \frac{50}{4}$$

$$y = 20 \checkmark$$

$$21x + 20y = 570 \checkmark$$

$$21x + 20\left(30.5 - \frac{5}{4}x\right)$$

$$21x + 610 - 25x = 570$$

$$-4x = -40$$

Fencing

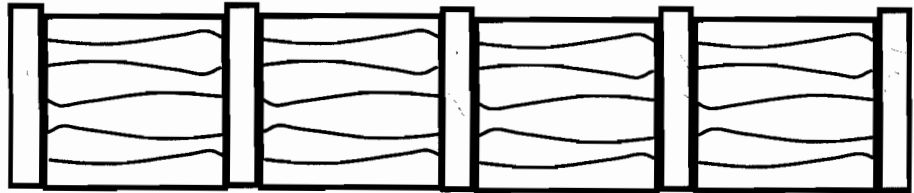
S10

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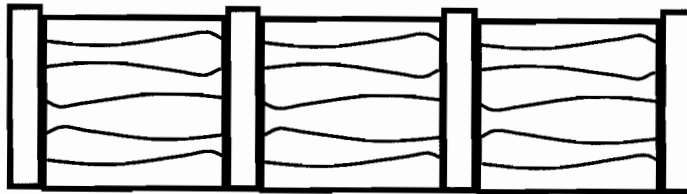


He pays \$570 for 21 fence posts and 20 fence panels.

How much does he pay for 4 fence posts and 3 fence panels?

\$94 ✓

Show how you figured it out.



$$\begin{aligned} 5x + 4y &= 122 \\ 21x + 20y &= 570 \end{aligned}$$
$$\begin{aligned} x &= 10 \\ y &= 18 \end{aligned}$$