

Name Kay  
Mrs. Roumbos

Date \_\_\_\_\_  
8R Period \_\_\_\_\_

DO NOW

Create an equation for the following word problem and then solve it.

\*\* Happy Paws charges a flat fee of \$20.00 plus \$1.50 per hour to keep a dog during the day. A rival service, Woof Watchers, charges a flat fee of \$15.00 plus \$2.75 per hour. Find the number of hours (h) for which you would pay the same total fee to both services.

$$\begin{array}{r} 20 + 1.5h = 15 + 2.75h \\ -1.5h \quad \quad -1.5h \\ \hline \end{array}$$

$$\begin{array}{r} 20 = 15 + 1.25h \\ -15 \quad -15 \\ \hline \end{array}$$

$$\begin{array}{r} 5 = 1.25h \\ \hline 1.25 \quad 1.25 \\ \hline \end{array}$$

$$h = 4$$

4 hours

