Solving Proportions (6-3)

cross products	Decode (r. 055 pro.ducts
Definition	Example 2:6 × =n
	2·18 = 3× 3 <u>6 = 3×</u>
	12 = X

Example 1: Decide if the ratios form a proportion.

I Do	You Do
$\frac{5}{17} \times \frac{60}{221}$ $5 \cdot 22 = 17 \cdot 60$ $1, 105 \neq 1, 020$ $\boxed{N0}$	$\frac{6}{11} \times \frac{84}{154}$ 6.154 = 11.84 924 = 924 \checkmark Yes

Example 2: Solve each proportion.

I Do	You Do
$\frac{27}{15} \times \frac{72}{y}$ $15.72 = 27.y$ $1.080 = 27y$ $27 = 27$ $40 = y$	$\frac{v}{84} \times \frac{2}{21}$ $84 \cdot 2 = 21 \cdot V$ $ 68 = 8 V$ $21 $

 $\textbf{Example 2:} \ \texttt{Emma makes} \ \underline{\$75} \ \textbf{babysitting for 15 hours}.$

I Do	You Do
How much money would she make if she babysat for 22 hours?	How many hours must she babysit to earn \$85?
\$75 Shrs. 22 hrs.	#75 15hrs. × x hrs.
75.22 = 15x	15.85 = 75×
1650 = 15X 15 15 (#110 = X)	1,275 = 75x 75 7 hrs = X