This book has permission to use the "N&K method of COLORS".

26) Question: Sweaters made of natural wool cost 20% more than the ones made out synthetic materials. Based on that observation, if a wool sweater costs \$204, how much should a similar sized synthetic materials sweater cost?

For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

Solution:

- *Given* 1) *Sweaters made of natural wool cost 20% more than the ones made out synthetic materials.*
 - 2) A wool sweater costs \$204.
 - 3) How much should a similar sized synthetic materials sweater cost?

Road Map of Solution:

First Step: Convert the "<mark>W</mark>ord Equation" in First Given Statement into a "<mark>M</mark>ath Equation".

Second Step: Switch the cost of the wool sweater (\$204), in the "Math Equation" above and solve the equation.

First Step: Convert the "Word Equation" in First Given Statement into a "Math Equation".

<mark>W</mark> ord Eq. ⇒ Math Eq. ⇒	Sweaters made of natural woo Cost of natural wool Sweaters	l cost are	20% more tha 20% <mark>more tha</mark>	n t <mark>n</mark>	he ones made out synthetic materials. Cost of synthetic material sweaters.
⇒ ⇒	<i>Cost of natural wool Sweaters</i> <i>\$204</i> <i>\$204</i>	= = =	(20% <mark>+ 100%</mark> (120% (120 <mark>%</mark>)]]	Cost of synthetic material sweaters Cost of synthetic material sweaters Cost of synthetic material sweaters
⇒	\$204	=	(120 <mark>×_1_</mark>)	Cost of synthetic material sweaters
⇒	\$204	=	(1.20)	Cost of synthetic material sweaters
⇒	$\{ $204\} \frac{1}{x_{1,20}^2}$	$=\frac{1}{1.20}x$	(1.20)	Cost of synthetic material sweaters }
⇒	\$170	$=\frac{1}{1.20}X$	(1.20)	Cost of synthetic material sweaters
⇒	\$170	$=\frac{1}{4}x$	(1)	Cost of synthetic material sweaters
⇒	\$170	= 1 <i>x</i>	(1 —)	Cost of synthetic material sweaters
⇒	\$170	=			Cost of synthetic material sweaters Answer