## 7-2 Solve It!



## 7-2 Lesson Quiz

1. $\triangle H J K \sim \triangle C N D$.
a. What are the pairs of congruent angles?
b. What is the extended proportion for the ratios of corresponding sides?
2. Are the polygons similar? If they are, write a similarity statement and give the scale factor.


3. Do you UNDERSTAND? Harold has a photograph that is 8 in. $\times 10$ in. that he wants to print at a reduced size to fit into a frame that is 6 in . tall. What will be the dimensions of the new photograph?

## Answers

## Solve It!

The letterbox screen has the same ratio of width to height as the movie screen, $9: 5$ in both cases.

## Lesson Quiz

1. a. $\angle H \cong \angle C, \angle J \cong \angle N$,
b. $\frac{H J}{C N}=\frac{J K}{N D}=\frac{H K}{C D}$
2. yes; POSN $\sim K D A G$, scale factor: $5: 4$
3. 4.8 in. $\times 6$ in.
