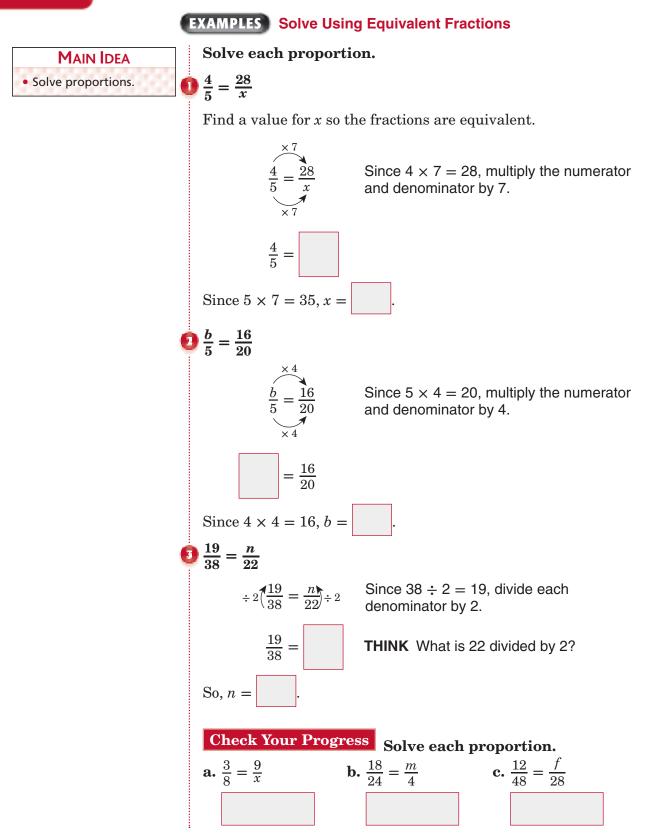
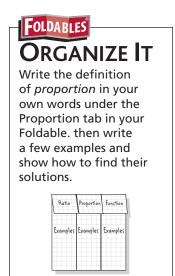
## **Algebra: Solving Proportions**

6-4

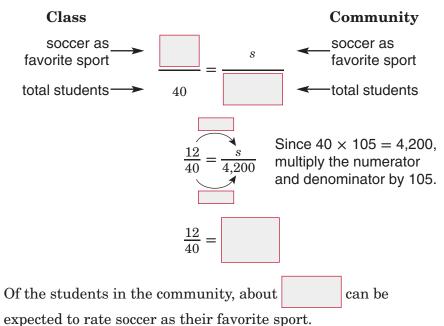




## EXAMPLE Make Predictions in Proportional Situations

SPORTS Out of the 40 students in a gym class, 12 rate soccer as their favorite sport. Based on this result, predict how many of the 4,200 students in the community would rate soccer as their favorite sport.

Write and solve a proportion. Let *s* represent the number of students who can be expected to rate soccer as their favorite sport.



**Check Your Progress BUSINESS** Out of 50 people in one department of a large corporation, 35 stated that they enjoy their job. Based on this result, how many of the 2,400 employees of this corporation can be expected to say that they

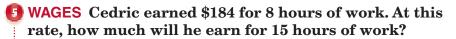
enjoy their job?

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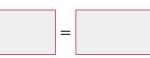
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6-4

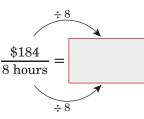
## **EXAMPLE** Solve Using Unit Rates



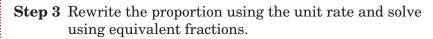
**Step 1** Set up the proportion. Let *d* represent the dollar amount Cedric will earn for 15 hours of work.

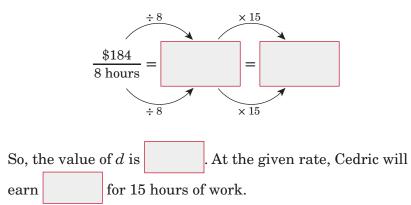


## Step 2 Find the unit rate.

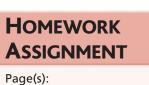


Find an equivalent fraction with a denominator of 1.





**Check Your Progress DOGS** Marci walked 24 dogs in 6 days. At this rate, how many dogs will she walk in 14 days?



Exercises: