Unit 40 Word Problems Using Fractions

1. An $8\frac{3}{4}$ foot board must be shortened to $6\frac{1}{3}$ feet. How much must be removed?



2. Hamburger costs \$2.48 per pound. How much will it cost to make 25 quarter-pound hamburgers?

| Unknown: | Solution: |
|---|--|
| pounds required cost of required hamburger | pounds required = <u>hamburgers needed</u> hamburgers per pound |
| Given: hamburger costs = \$2.48 per pound hamburgers per pound = 4 hamburgers needed = 25 | $=\frac{25 \text{ hamburgers}}{4 \text{ hamburgers per pound}}=6\frac{1}{4} \text{ pounds}$ |
| | cost = (pounds required)(cost per pound) |
| | $= (6\frac{1}{4} \text{ lbs.})(\$2.48 \text{ per pound})$ |
| This answer makes sense because (\$2.50 per pound)(6 pounds) = \$15.00 | $= \left(\frac{25}{4}\right) \left(\frac{\$2.48}{1}\right) = \frac{\$62.00}{4} = \left[\$15.50\right]$ |

3. Ted wants to frame a window which is $7\frac{3}{4}$ feet long and $5\frac{3}{4}$ feet wide. How many $6\frac{1}{2}$ foot boards will he need?

