In each problem, show what calculation you make or what equation you solve.
1 What percentage of 60 is 24 ?
Let $x$ be the percentage in question; then

$$
\frac{x}{100} \cdot 60=24 .
$$

Solving this equation,

$$
x=40 .
$$

So, $40 \%$ of 60 is 24 .
2 In 2008, Todd got a $\$ 120,000$ salary. When the recession hit, his pay was cut by $15 \%$. What was his salary afterward?

Todd's pay was cut by

$$
\frac{15}{100} \cdot 120000=18000
$$

dollars, so his salary afterwards was

$$
120000-18000=102000
$$

dollars, that is $\$ 102,000$.
3 A rectangular field is divided into two squares. It takes 294 yards of fencing to enclose the field and divide it. What are the field's dimensions?

Let $x$ be the length in yards of any of the sides of either square; then the total amount of fencing is

$$
7 x=294
$$

yards. Solving this equation,

$$
x=42,
$$

which is the width of the field in yards; the length of the field is $2 x=98$ yards. That is, the dimensions of the field are 42 yards by 98 yards.

