## Master 5.23 Extra Practice 3

## Lesson 5.3: Solving Percent Problems

1. Find the number in each case.
a) $30 \%$ of a number is 12 .
b) $2 \%$ of a number is 9 .
c) $150 \%$ of a number is 60 .
d) $55 \%$ of a number is 11 .
2. Find the whole amount in each case.
a) $8 \%$ is 72 cm .
b) $0.6 \%$ is 18 g .
c) $120 \%$ is 24 m .
d) $32 \%$ is 64 mL .
3. Write each increase as a percent.
a) The price of gasoline increased from $93.9 \not \subset$ to $99.9 \not \subset$.
b) The price of a car increased from $\$ 32000$ to $\$ 36000$.
c) The price of a loaf of bread increased from $\$ 1.99$ to $\$ 2.49$.
4. Write each decrease as a percent.
a) The number of employees decreased from 6800 to 5200 .
b) The area of a park decreased from 840 ha to 672 ha.
c) The price of a computer decreased from $\$ 1500$ to $\$ 1200$.
5. A printing machine produces labels.

Four percent of the labels produced are defective.
Suppose 372 labels were defective.
How many labels are not defective?
6. A field goal kicker was successful $75 \%$ of the time.

He made 51 field goals.
How many kicks did he make in total?
7. Lesley and Enid left their waitress a $15 \%$ tip.

The tip was $\$ 10.25$.
What was their total bill, not including the tip?
8. Marcus collects baseball cards. At the end of 2005, he had 250 cards.

His collection increased by $12 \%$ in 2006, and by $15 \%$ in 2007.
a) How many baseball cards did Marcus have at the end of 2007?
b) Is your answer to part a the same as a $27 \%$ increase in the number of cards Marcus had at the end of 2005? Why or why not?

