Worksheet **4.4**

Solving Percent Problems Using Equations.

Translate to an equation. Do not solve. See examples on page 229 in text.

1. What is $15.5\,\%$ of 96?

A) $n = 96\,\% \times 15.5$ B) $n \times 15.5\,\% = 96$ C) $n = 15.5\,\% \times 96$ D) $15.5 = n \times 96$

2. 79 is $38\,\%$ of what?

A) $79 = 38\,\% \times n$ B) $79 = 38 \times n$ C) $79 \times n = 38\,\%$ D) $79 \times 38\,\% = n$

3. 39.5 is what percent of 88?

A) $39.5 = z \times 88$ B) $39.5 = z \times 88\,\%$ C) $39.5\,\% = z \times 88$ D) $39.5 \times z = 88$

Solve the problem. See examples on pages 230-231 in text.

4. $0.5\,\%$ of $1600?

A) $80 B) $800 C) $8 D) $1

5. $8.5\,\%$ of 37 feet

A) 0.32 feet B) 31.5 feet C) 315 feet D) 3.15 feet

Solve the problem. Round your answer to the nearest unit. See examples on page 231 in text.

6. 24 children is 2 % of what number of children?

A) 120 B) 12,000 C) 1200 D) 48

7. 108 acres is 38 % of what number of acres?

A) 28,400 B) 284 C) 41 D) 2840

Solve the problem. Round answer to the nearest tenth of a percent. See examples on page 232 in text.

8. What percent of 2253 plants is 17 plants?

A) 0.8 % B) 13,252.9 % C) 17.5 % D) 7.5 %

Solve. Give your answer as a mixed number if necessary. See examples on pages 207-208 in text.

9. $\frac{1}{2} = \frac{x}{19}$

A) 19 B) 38 C) $\frac{1}{38}$ D) $9\frac{1}{2}$

Divide. See examples on pages 163-164 in text.

10. $7\overline{)7.42}$

A) 2.06 B) 1.06 C) 10.6 D) 20.6