Solve Percent Problems Homework Practice

Write a proportion and solve each problem. CHOOSE 10!

1. 40 is 20% of what number?

$$\frac{40 \div 2}{w \div 2} = \frac{20}{100}$$

$$\boxed{w = 200}$$

2. 57% of 109 is what number?

$$\frac{57}{100} = \frac{n}{109} \quad 100n$$

$$6213 = 100n \quad n = \frac{6213}{100} \quad \boxed{n = 62.13}$$

109
$\times 57$
'763
5450
6213

3. What number is 70% of 200?

$$\frac{70^{\times 2}}{100^{\times 2}} = \frac{n}{200}$$

$$\boxed{n = 140}$$

4. 10 is 5% of what number?

$$\frac{10 \div 2}{w \div 2} = \frac{5}{100}$$

$$\boxed{w = 200}$$

5. 41% of what number is 82?

$$\frac{41^{\times 2}}{100^{\times 2}} = \frac{82}{w}$$

$$\boxed{w = 200}$$

6. What number is 45% of 200?

$$\frac{45^{\times 2}}{100^{\times 2}} = \frac{n}{200} \quad \boxed{n = 90}$$

7. 6% of 400 is what number?

$$\frac{6^{\times 4}}{100^{\times 4}} = \frac{n}{400} \quad \boxed{n = 24}$$

8. 60 is 25% of what number?

$$\frac{60}{w} = \frac{25}{100} \quad 25w \quad 6000$$

$$6000 = 25w$$
$$w = 6000 \div 25 \quad \boxed{w = 240}$$

$\times 240$
25)6000
$-50\downarrow$
100
$-100\downarrow$
00

9. What number is 32% of 1,000?

$$\frac{32^{\times 10}}{100^{\times 10}} = \frac{n}{1000}$$

$$\boxed{n = 320}$$

10. What number is 70% of 250?

$$\frac{70}{100} = \frac{n}{250} \quad 100n \quad 17500$$

$$n = \frac{17,500}{100} = \boxed{175}$$

$25 \times 7 = 175$

Check! $\frac{7^{\times 25}}{10^{\times 25}} = \frac{175}{250}$

11. 73 is 20% of what number?

$$\frac{73}{w} = \frac{20}{100} \quad 20w \quad 7300$$

$$w = 7300 \div 20 \quad \boxed{w = 365}$$

$\times 365$
20)7300
$-60\downarrow$
130
$-120\downarrow$
100
-100
0

12. 58% of 50 is what number?

$$\frac{58 \div 2}{100 \div 2} = \frac{n}{50} \quad \boxed{n = 29}$$

13. 85% of 20 is what number?

$$\frac{85 \div 5}{100 \div 5} = \frac{n}{20}$$

$$\boxed{n = 17}$$

14. 12 is 24% of what number?

$$\frac{12^{\times 2}}{w^{\times 2}} = \frac{24}{100} \quad \boxed{w = 50}$$