

Reteaching 6-3

Percents and Proportions

You can use proportions to solve percent problems.

Find the part.

Example 1: Find 10% of 92.

- ① Think of the percent as a ratio. $10\% = \frac{10}{100}$
- ② Write a proportion. $\frac{10}{100} = \frac{n}{92}$
- ③ Solve. $100n = 920$
 $\frac{100n}{100} = \frac{920}{100}$
 $n = 9.2$

10% of 92 is 9.2.

Find the whole.

Example 3: 50 is 20% of what number?

- ① Write a proportion. $\frac{50}{n} = \frac{20}{100}$
- ② Solve. $20n = 5,000$
 $\frac{20n}{20} = \frac{5,000}{20}$
 $n = 250$

50 is 20% of 250.

Complete the proportion. Then solve each problem.

1. 6 is $n\%$ of 30.

$$\frac{n}{100} = \frac{\square}{\square}$$

$n =$ _____

2. 2 is 25% of n .

$$\frac{2}{n} = \frac{25}{100}$$

$n =$ _____

3. 75% of 80 is n .

$$\frac{\square}{\square} = \frac{75}{100}$$

$n =$ _____

4. $n\%$ of 50 is 20.

$$\frac{n}{100} = \frac{20}{50}$$

$n =$ _____

5. 49 is $n\%$ of 140.

$$\frac{49}{140} = \frac{n}{100}$$

$n =$ _____

6. 45 is 15% of n .

$$\frac{45}{n} = \frac{15}{100}$$

$n =$ _____

Use a proportion to solve each problem.

7. Find 50% of 90.

8. Find 75% of 980.

9. 60 is 30% of what number?

Practice 6-3

Percents and Proportions

Write a proportion that will help you answer the problem. Then solve each problem. **DO ODDS ONLY.**

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|---------------------------------------|---------------------------------------|
| 1. What percent is 21 of 50?
_____ | 2. What is 45% of 72?
_____ |
| 3. 83 is 70% of what number?
_____ | 4. 45 is what percent of 65?
_____ |

Use a proportion to solve each problem.

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|--|--|---------------------------|
| 5. 78% of 58 is _____. | 6. 86 is 12% of _____. | 7. 90 is _____ of 65. |
| 8. 40 is 17% of _____. | 9. 57 is 31% of _____. | 10. 280% of _____ is 418. |
| 11. 53% of 92 is _____. | 12. 56 is 25% of _____. | 13. 51 is _____ of 14. |
| 14. What percent of 42 is 18?
_____ | 15. 58 is 40% of what number?
_____ | |
| 16. What is 70% of 93?
_____ | 17. 240 is what percent of 150?
_____ | |
| 18. What percent of 16 is 40?
_____ | 19. 65 is 60% of what number?
_____ | |
| 20. What is 175% of 48?
_____ | 21. 210 is what percent of 70?
_____ | |
| 22. What percent of 56 is 7?
_____ | 23. 68 is 50% of what number?
_____ | |
| 24. What is 63% of 148?
_____ | 25. 215 is what percent of 400?
_____ | |

Solve.

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|--|---|
| 26. In 1990, the population of El Paso, Texas, was 515,342. Of this population, 69% were of Hispanic origin. How many people were of Hispanic origin?
_____ | 27. Bangladesh covers 55,598 mi ² . Of this land, 2,224 mi ² are meadows and pastures. What percent of the land is meadow and pasture?
_____ |
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