

Reteaching 6-6 Proportions and Percents

What percent of 98 is 24.5?

You can solve percent problems by writing and solving a proportion.

Any percent problem of the form $x\%$ of a is b can be written as:

$$\frac{x}{100} = \frac{b}{a}$$

$$\text{so } \frac{x}{100} = \frac{24.5}{98}$$

Write a proportion.

$$98x = 2,450$$

Write cross products.

$$\frac{98x}{98} = \frac{2,450}{98}$$

Divide each side by 98.

$$x = 25$$

Simplify.

24.5 is 25% of 98.

Write a proportion. Then solve. Where necessary, round to the nearest tenth or tenth of a percent.

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|---|--|
| 1. What percent of 75 is 60?
_____ | 2. What percent of 68 is 51?
_____ |
| 3. What percent is 17 of 25?
_____ | 4. What percent of 51 is 65?
_____ |
| 5. What percent of 144 is 126?
_____ | 6. What percent of 95 is 25?
_____ |
| 7. Find 24% of 120.
_____ | 8. Find 75% of 76.
_____ |
| 9. Find 260% of 30.
_____ | 10. Find $27\frac{1}{2}\%$ of 96.
_____ |
| 11. Find 38% of 32.
_____ | 12. Find 17% of 85.
_____ |
| 13. 40% of x is 28. What is x ?
_____ | 14. 9% of k is 27. What is k ?
_____ |
| 15. 75% of p is 12. What is p ?
_____ | 16. 0.9% of h is 276. What is h ?
_____ |
| 17. 13% of r is 209. What is r ?
_____ | 18. 68% of j is 44. What is j ?
_____ |