Simple Percent Formula

Amount = Percent of Base

$$A = P\% \times B$$

Alternate formula:

$$\frac{A}{B} = \frac{P}{100}$$

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1 Round answers to 1 decimal place.

What number is 84% of 438?

$$A = P\% \times B$$

$A = 84\% \times 438$

$A = 0.84 \times 438$

$A = 367.92$

Round to 367.9

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2 95 is 20% of what number?

$$A = P\% \times B$$

$95 = 20\% \cdot B$

$\frac{95}{0.2} = \frac{0.20B}{0.2}$ $B = 475$

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3

6% of students at a university attended a lecture. If 5000 students are enrolled at the university, about how many students attended the lecture?

$$A = P\% \times B$$

$A = 6\% \cdot 5000$

$A = \frac{6}{100} \cdot 5000$

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Percent Markup Formula

Amount of markup = Percent of Old Price

$$A = P\% \times B$$

New Price = Old Price + Amount of Markup

$$N = B + A$$

$$N = B + P\% \times B$$

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4

The local clothing store marks up the price that it pays to the clothing manufacturer by 22%. If the selling price of a pair of jeans is $103, how much did the clothing store pay for the jeans?

$$N = B + P\% \times B$$

$$103 = B + 22\% \cdot B$$

$$103 = 1B + 0.22B$$

$$\frac{103}{1.22} = \frac{1.22B}{1.22} = 84.426$$

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5 Sales at a local ice cream shop went up 20% in 5 years. If 36,000 ice cream cones were sold in the current year, find the number of ice cream cones sold 5 years ago.

$$N = B + P\% \times B$$

$36000 = B + 20\% B$

$36000 = B + 0.2B$

$\frac{36000}{1.2} = \frac{1.2B}{1.2}$

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6 A company increased the number of its employees from 500 to 570. What was the percent increase in employees?

$$N = B + P\% \times B$$

$570 = 500 + P\%(500)$

$570 - 500 = 500 + P\%(500) - 500$

$\frac{70}{500} = \frac{P\%(500)}{500}$

$0.14 = P\%$

$14\% = P\%$

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Percent Discount Formula

Amount of discount = Percent of Old Price

$$A = P\% \times B$$

New Price = Old Price – Amount of discount

$$N = B - A$$

$$N = B - P\% \times B$$

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7

Jeans are on sale at the local department store for 15% off. If the jeans originally cost $63, find the sale price.

$$N = B - P\% \times B$$

$N = 63 - 15\%(63)$

$N = 63 - 0.15(63)$

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8

A store is advertising a 31% off sale on all new DVD releases. Find the sale price of a newly released DVD collectors set that regularly sells for $ 42.00.

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9 The number of video stores in a region recently decreased from 130 to 84. Find the percent decrease. **Round the percentage to one decimal place.**

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10 A store is advertising 35% off sale on everything in the store. Find the discount of a necklace that regularly sells for $3500.

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11 Ming got a 7% raise in her salary from last year. This year she is earning $ 44,940. How much did she make last year?

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12 Attendance this year at the homecoming football game is 154% of what it was last year. If last year's homecoming football game attendance was 28,000, what is this year's attendance? (Round to the nearest integer, if necessary.)

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