

Solving Percent Problems

1 A company expands its production by 25%, and as a result, its revenue increases by 20%. If the original revenue was \$500,000, what is the new revenue?

2 The ratio of boys to girls in a school is 3:2. If the number of boys increases by 25% and the number of girls decreases by 20%, what is the new ratio?

3 In a budget of \$75,000 , 20% is allocated for salaries, 30% for equipment, and the rest for miscellaneous expenses. How much is allocated for miscellaneous expenses?

4 An item is marked up by 40%, and then a discount of 25% is applied. After that, a 12% tax is added. If the original price was \$150, what is the final price?

5 If 30% of a quantity is added to the existing one and then 20% of the new quantity is subtracted, what is the net percentage change?

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Answers

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\$600,000

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75:32

- 3 In a budget of \$75,000, 20% is allocated for salaries, 30% for equipment, and the rest for miscellaneous expenses. How much is allocated for miscellaneous expenses?

\$37,500

- 4 An item is marked up by 40%, and then a discount of 25% is applied. After that, a 12% tax is added. If the original price was \$150, what is the final price?

\$176.40

- 5 If 30% of a quantity is added to the existing one and then 20% of the new quantity is subtracted, what is the net percentage change?

4%