# 12. How to express one number as a percentage of another

## Scenario Questions: Round answers to 1 decimal place

1. In a class of 40 students, 10 students are boys. What percentage of the class is boys?

2. A store initially had 500 items in stock. After a sale, only 200 items remained. What percentage of the items were sold?

3. Out of 80 questions on a test, Sarah answered 64 correctly. What percentage of the questions did she answer correctly?

4. A company had 110 employees, and 20 of them were promoted. What percentage of the employees received a promotion?

5. In a survey, 75 out of 125 people said they prefer coffee over tea. What percentage of the people prefer coffee?

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## Scenario Questions: Round answers to 1 decimal place

6. A pizza has 8 slices, and John ate 3 slices. What percentage of the pizza did John eat?

7. A car traveled 400 miles on day one and 85 on day two. What percentage of the journey did he complete on day one?

8. A recipe calls for 2 cups of flour, but you only have 1 cup. What percentage of the required flour do you have?

9. A company's revenue was £10,000 last year, and it increased to £12,000 this year. What was the percentage increase in revenue?

10. A student scored 80 out of 92 on a test. What percentage did the student score?

# 12. How to express one number as a percentage of another

## Scenario Questions:  Answers

1. In a class of 40 students, 10 students are boys. What percentage of the class is boys?

**1. 10 students out of 40 is 25% of the class.**

2. A store initially had 500 items in stock. After a sale, only 200 items remained. What percentage of the items were sold?

**2. 300 items sold out of 500 is 60% of the items.**

3. Out of 80 questions on a test, Sarah answered 64 correctly. What percentage of the questions did she answer correctly?

**3. 64 correct answers out of 80 is 80%.**

4. A company had 110 employees, and 20 of them were promoted. What percentage of the employees received a promotion?

**4. 20 promotions out of 110 employees is 18.2%.**

5. In a survey, 75 out of 125 people said they prefer coffee over tea. What percentage of the people prefer coffee?

**5. 75 people who prefer coffee out of 125 is 60%.**

6. A pizza has 8 slices, and John ate 3 slices. What percentage of the pizza did John eat?

**6. 3 slices eaten out of 8 is 37.5%.**

7. A car traveled 400 miles on day one and 85 on day two. What percentage of the journey did he complete on day one?

**7. 400 miles out of 485 is 82.5%**

8. A recipe calls for 2 cups of flour, but you only have 1 cup. What percentage of the required flour do you have?

**8. 1 cup of flour out of 2 cups is 50%.**

9. A company's revenue was £10,000 last year, and it increased to £12,000 this year. What was the percentage increase in revenue?

**9. £2,000 increase in revenue out of £10,000 is a 20% increase.**

10. A student scored 80 out of 92 on a test. What percentage did the student score?

**10. 80 out of 92 is 87.0%.**