

10. How to turn decimals into fractions and percentages



Scenario Questions:

1. In a class of students, the probability of being male is 0.75. What is this decimal as a fraction and a percentage?

2. A store is offering a discount of 0.2 on all items. What is this decimal as a fraction and a percentage?

3. In a survey, the probability a participant preferred chocolate ice cream was 0.6. What is this decimal as a fraction and a percentage?

4. A company donated 0.15 of its profits to charity. What is this decimal as a fraction and a percentage?

5. In a basketball game, the probability a player made their free throws was 0.4. What is this decimal as a fraction and a percentage?

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Scenario Questions:

6. A test has multiple-choice questions, a student answered 0.8 of them correctly. What is this decimal as a fraction and a percentage?

7. A recipe calls for 0.3 times less sugar than the original amount. What is this decimal as a fraction and a percentage?

8. In a survey, the probability a participant agreed with a statement was 0.7. What is this decimal as a fraction and a percentage?

9. A company increased its prices by a factor of 0.05. What is this decimal as a fraction and a percentage?

10. A store sold 0.9 of its inventory during a sale. What is this decimal as a fraction and a percentage?

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Scenario Questions: **Answers**

1. In a class of students, the probability of being male is 0.75. What is this decimal as a fraction and a percentage?

1. Fraction: $\frac{3}{4}$, Percentage: 75%

2. A store is offering a discount of 0.2 on all items. What is this decimal as a fraction and a percentage?

2. Fraction: $\frac{1}{5}$, Percentage: 20%

3. In a survey, the probability a participant preferred chocolate ice cream was 0.6. What is this decimal as a fraction and a percentage?

3. Fraction: $\frac{3}{5}$, Percentage: 60%

4. A company donated 0.15 of its profits to charity. What is this decimal as a fraction and a percentage?

4. Fraction: $\frac{3}{20}$, Percentage: 15%

5. In a basketball game, the probability a player made their free throws was 0.4. What is this decimal as a fraction and a percentage?

5. Fraction: $\frac{2}{5}$, Percentage: 40%

6. A test has multiple-choice questions, a student answered 0.8 of them correctly. What is this decimal as a fraction and a percentage?

6. Fraction: $\frac{4}{5}$, Percentage: 80%

7. A recipe calls for 0.3 times less sugar than the original amount. What is this decimal as a fraction and a percentage?

7. Fraction: $\frac{3}{10}$, Percentage: 30%

8. In a survey, the probability a participant agreed with a statement was 0.7. What is this decimal as a fraction and a percentage?

8. Fraction: $\frac{7}{10}$, Percentage: 70%

9. A company increased its prices by a factor of 0.05. What is this decimal as a fraction and a percentage?

9. Fraction: $\frac{1}{20}$, Percentage: 5%

10. A store sold 0.9 of its inventory during a sale. What is this decimal as a fraction and a percentage?

10. Fraction: $\frac{9}{10}$, Percentage: 90%