

## ANSWERS

# PERCENT OF DECIMAL NUMBERS

Instructions: Solve the word problems by converting between percents and decimals as needed.

<p>Ⓐ Karen saved 40% of her \$500 paycheck. How much did she save?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.40 \times 500</math></li><li>▪ Answer: <b>200</b></li></ul>	<p>Ⓑ Tom scored 90% on his science test, which had 50 questions. How many questions did he answer correctly?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.90 \times 50</math></li><li>▪ Answer: <b>45</b></li></ul>
<p>Ⓒ A store is offering a 15% discount on a jacket that costs \$120. How much is the discount?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.15 \times 120</math></li><li>▪ Answer: <b>18</b></li></ul>	<p>Ⓓ A car's value depreciates by 10% each year. If the car was originally worth \$30,000, what will its value be after one year?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>30,000 \times 0.10 = 3000</math></li><li>▪ Answer: <b>\$27,000</b> (since <math>30,000 - 3,000 = 27,000</math>)</li></ul>
<p>Ⓔ Maria's phone battery is at 20% capacity, which means it has 400 mAh left. What is the total capacity of her phone battery?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>\frac{400}{0.20}</math></li><li>▪ Answer: <b>2000 mAh</b></li></ul>	<p>Ⓕ Jim spent 15% of his \$800 monthly income on rent. How much did he spend on rent?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.15 \times 800</math></li><li>▪ Answer: <b>120</b></li></ul>
<p>Ⓖ Alice has read 45% of her 200-page book. How many pages has she read?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.45 \times 200</math></li><li>▪ Answer: <b>90</b></li></ul>	<p>Ⓖ A company increased its sales by 35% this year. If they sold 400 units last year, how many units did they sell this year?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>400 \times 0.35 = 140</math></li><li>▪ Answer: <b>540 units</b> (since <math>400 + 140 = 540</math>)</li></ul>
<p>Ⓙ A recipe requires 0.5 of a cup of sugar. What is this amount as a percent?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>0.5 \times 100</math></li><li>▪ Answer: <b>50 %</b></li></ul>	<p>Ⓚ If 65% of the students in a school are boys and there are 390 boys, how many students are there in total?</p> <ul style="list-style-type: none"><li>▪ Calculation: <math>\frac{390}{0.65}</math></li><li>▪ Answer: <b>600 students</b></li></ul>

How Did You Do? 😊 😐 😞