

ANSWERS

PERCENT OF DECIMAL NUMBERS

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

<p>A John scored 85% on his math test, which had 20 questions. How many questions did he answer correctly?</p> <ul style="list-style-type: none">Calculation: 0.85×200Answer: 17	<p>B Sarah saved 25% of her \$200 allowance. How much did she save?</p> <ul style="list-style-type: none">Calculation: 0.25×200Answer: 50
<p>C A store is offering a 30% discount on a jacket that costs \$80. How much is the discount?</p> <ul style="list-style-type: none">Calculation: 0.30×80Answer: 24	<p>D A car's value depreciates by 15% each year. If the car was originally worth \$20,000, what will its value be after one year?</p> <ul style="list-style-type: none">Calculation: $20,000 \times 0.15 = 3000$Answer: \$17,000 (since $20,000 - 3,000 = 17,000$)
<p>E Emily's phone battery is at 40% capacity, which means it has 1600 mAh left. What is the total capacity of her phone battery?</p> <ul style="list-style-type: none">Calculation: $\frac{1600}{0.40}$Answer: 4000 mAh	<p>F Mike spent 12% of his monthly income on groceries. If he spent \$300, what is his total monthly income?</p> <ul style="list-style-type: none">Calculation: $\frac{300}{0.12}$Answer: \$2500
<p>G Lisa has read 60% of her 150-page book. How many pages has she read?</p> <ul style="list-style-type: none">Calculation: 0.60×150Answer: 90	<p>H A company increased its production by 25% this year. If they produced 400 units last year, how many units did they produce this year?</p> <ul style="list-style-type: none">Calculation: $400 \times 0.25 = 100$Answer: 500 units (since $400 + 100 = 500$)
<p>I A recipe requires 0.75 of a cup of sugar. What is this amount as a percent?</p> <ul style="list-style-type: none">Calculation: 0.75×100Answer: 75 %	<p>J If 55% of the students in a school are girls and there are 330 girls, how many students are there in total?</p> <ul style="list-style-type: none">Calculation: $\frac{330}{0.55}$Answer: 600 students

How Did You Do? 😊 😐 😞