

ANSWERS

PERCENT OF DECIMAL NUMBERS

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

<p>👉 Mark saved 15% of his \$400 paycheck. How much did he save?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.15×400 ▪ Answer: 60 	<p>👉 Emma scored 75% on her history test, which had 80 questions. How many questions did she answer correctly?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.75×80 ▪ Answer: 60
<p>👉 A store is offering a 25% discount on a dress that costs \$120. How much is the discount?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.25×120 ▪ Answer: 30 	<p>👉 A computer's value depreciates by 8% each year. If the computer was originally worth \$1500, what will its value be after one year?</p> <ul style="list-style-type: none"> ▪ Calculation: $1500 \times 0.08 = 120$ ▪ Answer: \$1380 (since $1500 - 120 = 1380$)
<p>👉 Lily's phone battery is at 45% capacity, which means it has 1800 mAh left. What is the total capacity of her phone battery?</p> <ul style="list-style-type: none"> ▪ Calculation: $\frac{1800}{0.45}$ ▪ Answer: 4000 mAh 	<p>👉 Jack spent 18% of his \$1500 monthly income on groceries. How much did he spend on groceries?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.18×1500 ▪ Answer: 270
<p>👉 Olivia has read 35% of her 300-page book. How many pages has she read?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.35×300 ▪ Answer: 105 	<p>👉 A company increased its production by 12% this year. If they produced 500 units last year, how many units did they produce this year?</p> <ul style="list-style-type: none"> ▪ Calculation: $500 \times 0.12 = 60$ ▪ Answer: 560 units (since $500 + 60 = 560$)
<p>👉 A recipe requires 0.4 of a cup of flour. What is this amount as a percent?</p> <ul style="list-style-type: none"> ▪ Calculation: 0.4×100 ▪ Answer: 40 % 	<p>👉👉 If 70% of the students in a school are girls and there are 420 girls, how many students are there in total?</p> <ul style="list-style-type: none"> ▪ Calculation: $\frac{420}{0.70}$ ▪ Answer: 600 students

How Did You Do? 😊 😐 😞