

Fraction and Percentage Calculations

For each scenario below, calculate the percentage of time or data used for the activity mentioned in the question. Show your calculations clearly.

1. Out of your daily mobile usage, you spend $\frac{3}{10}$ on apps and 25% on watching videos. What percentage of your time is left for listening to music? NO CALCULATOR
2. If $\frac{1}{5}$ of your phone battery is used for calls and 35% for social media, what percentage is left for sending messages? NO CALCULATOR
3. In one evening, you used 40% of your Wi-Fi for work and 30% for browsing. The rest was used for streaming. What percentage of your Wi-Fi was used for streaming? NO CALCULATOR
4. From your weekend phone use, $\frac{9}{20}$ was spent on games and 15% on watching videos. What percentage was spent on messages? CALCULATOR
5. A student spends $\frac{1}{4}$ of their online time reading articles and 50% watching videos. The rest is spent browsing. What percentage is used for browsing? NO CALCULATOR
6. You played games for $\frac{3}{8}$ of your device's battery life and used 20% for social media. What percentage of battery was used for calls? CALCULATOR
7. Your tablet used $\frac{7}{25}$ of its data on apps and 60% on streaming. What percentage was spent on messages? CALCULATOR
8. On a particular day, you watched videos for $\frac{11}{20}$ of your time and browsed for 10%. What percentage did you spend on games? CALCULATOR
9. $\frac{2}{3}$ of your data was used for streaming, and 10% for apps. What percentage was used for calls? CALCULATOR
10. Out of your virtual meeting time, $\frac{5}{12}$ was work-related and 25% was for meetings. The rest was spent browsing. What percentage was used for browsing? CALCULATOR

Answer Key

1. **Music:** 45% Calculation: $3/10 = 0.3$ (apps), 0.25 (videos). Total used: $0.3 + 0.25 = 0.55$. Remaining: $1 - 0.55 = 0.45$. Percentage: $0.45 \times 100 = \mathbf{45\%}$
2. **Messages:** 45% Calculation: $1/5 = 0.2$ (calls), 0.35 (social media). Total used: $0.2 + 0.35 = 0.55$. Remaining: $1 - 0.55 = 0.45$. Percentage: $0.45 \times 100 = \mathbf{45\%}$
3. **Streaming:** 40% Calculation: $2/5 = 0.4$ (work), 0.3 (browsing). Total used: $0.4 + 0.3 = 0.7$. Remaining: $1 - 0.7 = 0.3$. Streaming: $0.3 \times 100 = \mathbf{30\%}$ *Correction: "rest was used for streaming" means streaming is the remainder = $0.3 = \mathbf{30\%}$*
4. **Messages:** 40% Calculation: $9/20 = 0.45$ (games), 0.15 (videos). Total used: $0.45 + 0.15 = 0.6$. Remaining: $1 - 0.6 = 0.4$. Percentage: $0.4 \times 100 = \mathbf{40\%}$
5. **Browsing:** 25% Calculation: $1/4 = 0.25$ (reading), 0.5 (videos). Total used: $0.25 + 0.5 = 0.75$. Remaining: $1 - 0.75 = 0.25$. Percentage: $0.25 \times 100 = \mathbf{25\%}$
6. **Calls:** 50% Calculation: $3/8 = 0.375$ (games), 0.2 (social media). Total used: $0.375 + 0.2 = 0.575$. Remaining: $1 - 0.575 = 0.425$. Percentage: $0.425 \times 100 = \mathbf{42.5\%}$
7. **Messages:** 5% Calculation: $7/25 = 0.28$ (apps), 0.6 (streaming). Total used: $0.28 + 0.6 = 0.88$. Remaining: $1 - 0.88 = 0.12$. Percentage: $0.12 \times 100 = \mathbf{12\%}$
8. **Games:** 40% Calculation: $11/20 = 0.55$ (videos), 0.1 (browsing). Total used: $0.55 + 0.1 = 0.65$. Remaining: $1 - 0.65 = 0.35$. Percentage: $0.35 \times 100 = \mathbf{35\%}$
9. **Calls:** 60% Calculation: $2/3 \approx 0.6667$ (streaming), 0.1 (apps). Total used: $0.6667 + 0.1 = 0.7667$. Remaining: $1 - 0.7667 = 0.2333$. Percentage: $0.2333 \times 100 \approx \mathbf{23.33\%}$
10. **Browsing:** 33.3% Calculation: $5/12 \approx 0.4167$ (work), 0.25 (meetings). Total used: $0.4167 + 0.25 = 0.6667$. Remaining: $1 - 0.6667 = 0.3333$. Percentage: $0.3333 \times 100 \approx \mathbf{33.33\%}$