

Lesson 4-3 • Group 2

Reinforce Understanding

4.3 Small Group • Group 2

I can estimate the percent of a number using benchmark percents, rounding, and compatible numbers, explain why the method works, and use it on a problem I have not seen before.

Worked model

A tablet holds 64 GB of storage and 47 GB are already used. About what percent of the tablet is full?

1. Name the whole: all 64 GB stands for one hundred percent.
2. Mark benchmarks: halfway is 32 GB, and three quarters of the way is 48 GB.
3. Locate the used amount, 47 GB — it sits right at the three-quarter mark.
4. Estimate with that benchmark, not with exact division.

Answer: About three quarters — roughly seventy-five percent — of the tablet is full.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Complete the benchmark table for 240.

Complete the table. Show how you found each value.

Benchmark	Shortcut	Value
10% of 240		
1% of 240		
50% of 240		
25% of 240		

Show your work

2. Match each percent problem to the benchmark combination that estimates it.

Write the letter of the matching item on each line.

1. _____ 15% of 200
 2. _____ 75% of 80
 3. _____ 20% of 350
 4. _____ 11% of 400
- A 10% + 5%: $20 + 10 = 30$
 - B 50% + 25%: $40 + 20 = 60$
 - C 10% doubled: $35 \times 2 = 70$
 - D 10% + 1%: $40 + 4 = 44$