

About How Many?

Teacher-led estimating with real classroom collections and a ten-object benchmark.

1.NS.2.b "Estimate the number of objects (up to 120) in a given collection and justify the reasonableness of an answer."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 CHOOSE AN ESTIMATE _____

a	30	40	80
b	100	60	80
c	70	90	50

2 WRITE AN ESTIMATE _____

A	
B	

HOW TO RUN THIS PAGE

Prepare one visible benchmark group of 10 paper clips and show it beside each collection. Show one collection at a time, do not let students touch or count it, and ask students to explain their estimate aloud by comparing the collection with the benchmark. Use the collection totals in the answer key.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • CHOOSE AN ESTIMATE

SAY “Look at the group of 10 paper clips beside each collection. Use it to help you decide about how many objects you see. After you circle a number, tell a partner what you noticed.”

ROW	SAY	STUDENTS CIRCLE
a	Look at Collection 1 of paper clips. The choices are 30, 40, and 80. Which number is the best estimate? Circle it. What do you notice that makes your choice make sense?	40
b	Look at Collection 2 of paper clips. The choices are 100, 60, and 80. Which number is the best estimate? Circle it. What do you notice that makes your choice make sense?	80
c	Look at Collection 3 of paper clips. The choices are 70, 90, and 50. Which number is the best estimate? Circle it. What do you notice that makes your choice make sense?	70

PART 2 • WRITE AN ESTIMATE

SAY “Look at Collection A, then write a number that tells about how many paper clips you think are there. Look at Collection B and do the same. What did you notice about the group of 10 that helped you choose each number?”

- Box 1 (beside A): **about 60**
- Box 2 (beside B): **about 100**

WHAT TO ACCEPT

Prepare Collections 1, 2, and 3 with 43, 77, and 68 paper clips, so the circle answers are 40, 80, and 70. Prepare Collection A with 56 paper clips and Collection B with 104 paper clips. Accept estimates near 56 and 104, such as 50 to 65 for A and 95 to 115 for B, when the student can orally compare the collection to the group of 10 or explain why the estimate is not too small or too large.