LESSON MAKER PRO

Block Number Builder

Read base-ten blocks and write the number.

GRADE 2 · 2.NS.2.a

2.NS.2.a "Write the three-digit whole number represented by a given model (e.g., concrete objects, pictures of base 10 blocks)."

NAME _____ DATE _____

READ EACH PLACE

Read hundreds, then tens, then ones. Write the digit for how many blocks are in each place. Use 0 when a place has no blocks.

WORKED EXAMPLE

A game shelf has 5 hundred flats, 7 tens rods, and 2 ones cubes. Write the number.

1. The hundreds digit is 5.
2. The tens digit is 7.
3. The ones digit is 2.
4. Write 572.

Answer: 572

PRACTICE 4 problems

1 A toy bin has 2 hundred flats, 4 tens rods, and 1 one cube. Write the number.

ANSWER _____

2 A snack shop model has 6 hundred flats, 3 tens rods, and 0 ones cubes. Write the number.

ANSWER _____

3 A pet store model has 4 hundred flats, 0 tens rods, and 8 ones cubes. Write the number.

ANSWER _____

4 A robot kit has 1 hundred flat, 9 tens rods, and 5 ones cubes. Write the number.

ANSWER _____

APPLY IT Show your work

1 At the school fair, Maya uses 7 hundred flats, 2 tens rods, and 5 ones cubes to show how many tickets were sold. Write the number.

WORK SPACE

ANSWER _____

2 A video game score model has 1 hundred flat, 9 tens rods, and 0 ones cubes. Write the score.

WORK SPACE

ANSWER _____

3 Read a REAL model. Your teacher gives you a base-ten block model without telling you its number. Inspect it. Count the hundred flats, ten rods and unit cubes; record H ___, T ___, O ___. Write its three-digit number, and explain what each digit tells you.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A space robot has 4 hundred flats, 0 tens rods, and 7 ones cubes. Write the number. Tell why there is a 0 in the number.

WORK SPACE AND ANSWER

ANSWER KEY

Block Number Builder

GRADE 2 · 2.NS.2.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy bin has 2 hundred flats, 4 tens rods, and 1 one cube. Write the number.	**241**
2	A snack shop model has 6 hundred flats, 3 tens rods, and 0 ones cubes. Write the number.	**630**
3	A pet store model has 4 hundred flats, 0 tens rods, and 8 ones cubes. Write the number.	**408**
4	A robot kit has 1 hundred flat, 9 tens rods, and 5 ones cubes. Write the number.	**195**

PART 2 · APPLY IT

1. **725** Write 7 in the hundreds place, 2 in the tens place, and 5 in the ones place.
2. **190** Write 1 for hundreds, 9 for tens, and 0 for ones.
3. **H = 3, T = 2, O = 6; 326.** TEACHER SETUP before Apply 3: prepare exactly 3 standard hundred flats, 2 ten rods and 6 unit cubes for each learner or a clearly visible shared model. A hundred flat represents 100, a rod 10 and a unit cube 1. Place pieces in three groups, but do not state the counts or number; the learner must inspect and count. Check 300 + 20 + 6 = 326 and the explanation of each digit. Rotate learners through the model if supplies are limited.

CHALLENGE

407. The 0 shows there are no tens rods.

Accept digits written together in hundreds-tens-ones order. For the challenge, accept any clear statement that 0 means there are no tens. Apply 3 requires an actual teacher-provided, visible base-ten model and the learner's own count/number explanation. Prepare the model before the task, keep the 3/2/6 setup and key on the teacher page, and do not replace the model with a spoken list of counts. Adult recording is allowed. All earlier written-count tasks remain useful preparation.