

Block Number Builders

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 _____

BUILD THE NUMBER

A hundreds flat is worth 100, a tens rod is worth 10, and a ones cube is worth 1. Count each kind of block. Write the hundreds digit, then the tens digit, then the ones digit.

WORKED EXAMPLE

A block model for a robot has 2 hundreds flats, 4 tens rods, and 6 ones cubes. What number does the model show?

1. 2 hundreds flats are 200.
2. 4 tens rods are 40.
3. 6 ones cubes are 6.
4. $200 + 40 + 6 = 246$.

Answer: 246

PRACTICE 5 problems

- 1** A toy train model has 1 hundreds flat, 3 tens rods, and 5 ones cubes. Write the number.

ANSWER _____

- 2** A snack shop model has 4 hundreds flats, 2 tens rods, and 0 ones cubes. Write the number.

ANSWER _____

- 3** A pet store model has 3 hundreds flats, 0 tens rods, and 7 ones cubes. Write the number.

ANSWER _____

- 4** A game prize model has 6 hundreds flats, 8 tens rods, and 1 ones cube. Write the number.

ANSWER _____

- 5** A crayon box model has 5 hundreds flats, 9 tens rods, and 2 ones cubes. Write the number.

ANSWER _____

APPLY IT Show your work

- 1** Mia uses base-ten blocks to show how many stickers are in a club box. She has 2 hundreds flats, 5 tens rods, and 4 ones cubes. How many stickers are in the box?

WORK SPACE

ANSWER _____

- 2** At the library, a block model shows how many books are on a cart. The model has 7 hundreds flats, 3 tens rods, and 0 ones cubes. How many books are on the cart?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A dinosaur park model has 9 hundreds flats, 0 tens rods, and 4 ones cubes. Write the number. Explain why there is a 0 in the middle.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A toy train model has 1 hundreds flat, 3 tens rods, and 5 ones cubes. Write the number.	135
2	A snack shop model has 4 hundreds flats, 2 tens rods, and 0 ones cubes. Write the number.	420
3	A pet store model has 3 hundreds flats, 0 tens rods, and 7 ones cubes. Write the number.	307
4	A game prize model has 6 hundreds flats, 8 tens rods, and 1 ones cube. Write the number.	681
5	A crayon box model has 5 hundreds flats, 9 tens rods, and 2 ones cubes. Write the number.	592

PART 2 • APPLY IT

1. **254** 2 hundreds are 200, 5 tens are 50, and 4 ones are 4. $200 + 50 + 4 = 254$.
2. **730** 7 hundreds are 700, 3 tens are 30, and 0 ones are 0. $700 + 30 = 730$.

CHALLENGE

904. The 0 shows there are no tens rods.

Accept correctly written three-digit numerals. For the challenge, accept an explanation that the 0 means there are no tens.