LESSON MAKER PRO

# Most Common Number

*Find the value that appears most often.*

**GRADE 5 · 5.PS.2.d**

**5.PS.2.d** "Describe and determine the mode of a set of data values representing data from a given context as a measure of center."

NAME _____ DATE _____

## FINDING THE MODE

The mode is the data value that occurs most often. It describes the value that is most common in a set of data, so it can be a measure of center.

## WORKED EXAMPLE

Find the mode of this data set: 12, 15, 12, 18, 20, 15, 12

1. Count 12. It occurs 3 times.
2. Count 15. It occurs 2 times.
3. 18 and 20 each occur 1 time.
4. 12 occurs more often than any other value.

**Answer: Mode = 12**

## PRACTICE 6 problems

**1** Find the mode: 7, 9, 7, 11, 14

**ANSWER** _____

**2** Find all modes: 3, 6, 8, 3, 6, 10

**ANSWER** _____

**3** Find the mode: 21, 24, 27, 30

**ANSWER** _____

**4** Find the mode: 4, 4, 4, 5, 5, 6

**ANSWER** _____

**5** Find the mode: 16, 19, 16, 22, 25, 16

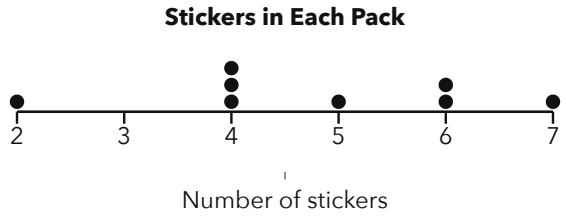
**ANSWER** _____

**6** Find the mode. Then tell how many times it occurs: 2, 2, 3, 3, 3, 4

**ANSWER** _____

## APPLY IT Show your work

**1** The dot plot shows how many stickers were in each pack at a school store. What is the mode? What does the mode tell you about the packs?




**ANSWER** _____

**2** A reading club recorded the number of pages each member read in one week: 26, 30, 26, 34, 26, 38. What is the mode? Describe what it tells about the reading club's data.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Two groups tested a new game. Group A earned these point totals: 9, 11, 9, 13, 11. Group B earned these point totals: 10, 10, 14, 14, 16. Which group has exactly one mode? Explain your reasoning.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Most Common Number

**GRADE 5 · 5.PS.2.d**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Find the mode: 7, 9, 7, 11, 14 | **7** |
| 2 | Find all modes: 3, 6, 8, 3, 6, 10 | **3 and 6** |
| 3 | Find the mode: 21, 24, 27, 30 | **No mode** |
| 4 | Find the mode: 4, 4, 4, 5, 5, 6 | **4** |
| 5 | Find the mode: 16, 19, 16, 22, 25, 16 | **16** |
| 6 | Find the mode. Then tell how many times it occurs: 2, 2, 3, 3, 3, 4 | **Mode = 3; it occurs 3 times.** |

## PART 2 · APPLY IT

1. **The mode is 4. Four stickers was the most common pack size (3 of 8 packs).** Four has 3 dots, more than any other individual size. This is 3 of 8 packs, not a majority of the packs.
2. **The mode is 26. The most common number of pages read was 26.** 26 appears 3 times. Each other number appears once.

## CHALLENGE

**Neither group has exactly one mode. Group A has modes 9 and 11, and Group B has modes 10 and 14. Each of those values occurs 2 times.**

Accept "no mode" when every value occurs once. For data sets with a tie for greatest frequency, accept both mode values in either order.