LESSON MAKER PRO

# Percent Power Moves

*Find parts and wholes with percent rates.*

**GRADE 6 · 6.RP.A.3c**

**CCSS.Math.Content.6.RP.A.3c** "Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent."

NAME _____ DATE _____

## PERCENT AS A RATE

To find p% of a quantity, write p% as p/100 and multiply. To find the whole when you know a part and a percent, divide the part by p/100.

## WORKED EXAMPLE

Find 18% of 250.

1. Write 18% as 18/100.
2. Multiply: 18/100 x 250 = 4500/100.
3. Simplify: 4500/100 = 45.

**Answer: 45**

## PRACTICE 6 problems

**1** Find 35% of 80.

**ANSWER** _____

**2** Find 12% of 200.

**ANSWER** _____

**3** Find 75% of 64.

**ANSWER** _____

**4** 30 is 15% of what number?

**ANSWER** _____

**5** 42 is 70% of what number?

**ANSWER** _____

**6** Find 8% of 325.

**ANSWER** _____

## APPLY IT Show your work

**1** A game has 96 levels. Maya has completed 25% of them. How many levels has she completed?

WORK SPACE

**ANSWER** _____

**2** At a school concert, 56 seats are filled. This is 70% of all the seats. How many seats are in the auditorium?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A gaming tournament has 240 players. In round one, 30% qualify. Of the players who do not qualify in round one, 25% qualify through a second-chance round. How many players qualify in all?

WORK SPACE AND ANSWER

**ANSWER KEY**

# Percent Power Moves

**GRADE 6 · 6.RP.A.3c**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Find 35% of 80. | **28** |
| 2 | Find 12% of 200. | **24** |
| 3 | Find 75% of 64. | **48** |
| 4 | 30 is 15% of what number? | **200** |
| 5 | 42 is 70% of what number? | **60** |
| 6 | Find 8% of 325. | **26** |

## PART 2 · APPLY IT

1. **24 levels** Compute 25/100 x 96 = 24.
2. **80 seats** Divide 56 by 70/100 to find the whole: 56 / 0.70 = 80.

## CHALLENGE

**114 players**

Accept equivalent fraction, decimal, or equation methods. Require units for the word problems and challenge.