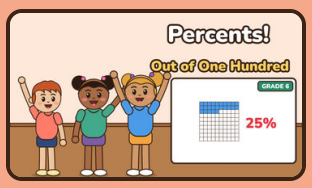
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 6 · LESSON 3

What Is a Percent?



COMMON CORE
6.RP.A.3.c

VIDEO LENGTH
4:02 · Virginia SOL edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-6#G6-03

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

6.RP.A.3.c 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.

Materials: Hundred grids, colored pencils, fraction-decimal-percent cards.

Students will

- Understand percent as 'out of 100'.
- Read a percent from a 100-square grid.
- Change between percents, decimals and fractions.
- Know that 100% is the whole and 0% is none.

Key words

percent (%)	out of one hundred
hundredths	parts of a whole split into 100
equivalent	names the same amount (50% = 0.5 = 1/2)
whole	100%

Before the video 2 minutes

Show a hundred grid with 25 squares shaded. Ask: “How could you describe how much is shaded?”

What happens in the video

0:00	Welcome and today's goal: percents
0:19	25 out of 100 squares is 25 percent
0:37	50% = 0.50 = 1/2
0:56	100% is the whole; 0% is none
1:10	Spot the mistake: 5 out of 100 is 5%, not 50%
1:32	Your turn! Students answer during each pause (see below)
3:44	Recap and goodbye

Spot the mistake at 1:10

> **Sam:** Five squares out of one hundred are shaded. That's fifty percent!
> **Ivy:** Hmm... five, or fifty?
> **Mia:** Five out of one hundred is five percent. Fifty percent would be half of the grid!
> **Sam:** Oops! Five out of one hundred. Five percent!

- Ask: “How many squares out of 100 are shaded?” (Five.)
- Shade 50 squares on another grid to show 50%.
- Compare the two grids.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
1:33	What percent of the grid is shaded?	Thirty percent!
1:46	What percent of the grid is shaded?	Seventy-five percent!
1:59	Write one half as a percent.	Fifty percent!
2:11	What percent of the grid is shaded?	Eight percent!
2:24	Write zero point four as a percent.	Forty percent!
2:37	Write twenty-five percent as a fraction.	One fourth! Twenty-five out of one hundred.
2:51	What percent of the grid is shaded?	One hundred percent! The whole grid.
3:05	Write sixty percent as a decimal.	Zero point six!
3:18	What percent of the grid is shaded?	Forty-five percent!
3:32	Write three fourths as a percent.	Seventy-five percent!

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Why is a hundred grid a good tool for percents?
2. Name a fraction, a decimal and a percent for one fourth.
3. Where do you see percents in real life?

Go further

Percent design: students color a hundred grid design with four colors and write each color as a percent, decimal and fraction.

Answer key for the practice page

1. 40%
2. 25%
3. 70%
4. 0.3
5. 1/5
6. 0.65 and 65/100 = 13/20

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HAKILLO KIDS · GRADE 6 · LESSON 3 · PRACTICE

What Is a Percent?

Name: _____ **Date:** _____

1. **40 squares of 100 are shaded. What percent?**

   Answer: _____

2. **Write 1/4 as a percent.**

   Answer: _____

3. **Write 0.7 as a percent.**

   Answer: _____

4. **Write 30% as a decimal.**

   Answer: _____

5. **Write 20% as a fraction in simplest form.**

   Answer: _____

6. **Shade 65% of a hundred grid. Write it as a decimal and a fraction.**

   Answer: _____

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Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**