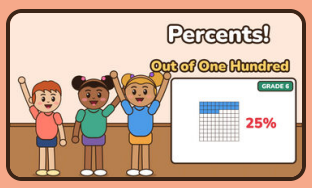
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 6 · LESSON 3

What Is a Percent?



VIRGINIA SOL (2023)
6.NS.1

VIDEO LENGTH
4:02 · Common Core 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.NS.1 The student will reason and use multiple strategies to express equivalency, compare, and order numbers written as fractions, mixed numbers, decimals, and percents.

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: _____

Watch the lesson free: hakillokids.org/math/grade-6#G6-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**