

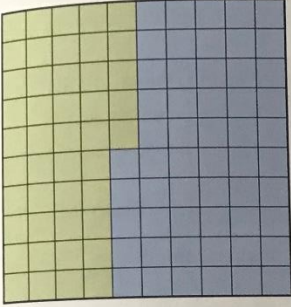
Hello Grade 6! 😊

Last week we spent time looking at what is a percent and representing percents. This week we will continue our work with percents, as well as look at solving percent problems.

To review, read through and consider the following:

Connect

The hundredths grid represents 1 whole.



Here are 4 ways to describe the green part of the grid.

- Compare the number of green squares to the total number of squares:
45 out of 100 squares are green
- Write a fraction.
 $\frac{45}{100}$ of the grid is green.
- Write a decimal.
0.45 of the grid is green.
- Write a **percent**.
45% of the grid is green.
Percent is another name for hundredths.


A percent is a special ratio that compares a number to 100.
45% means "45 out of 100" or "45 per hundred."

We can describe the blue part of the grid in the same 4 ways.

- 55 out of 100 squares are blue.
- $\frac{55}{100}$ of the grid is blue.
- 0.55 of the grid is blue.
- 55% of the grid is blue.

% is the percent symbol.

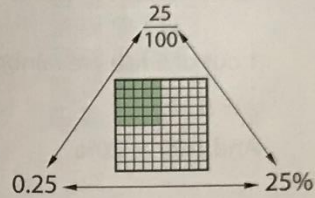
You read 55% as 55 percent.
Percent means "per hundred" or "out of 100."



Connect

- Fractions, decimals, and percents are 3 ways to describe parts of one whole.

A fraction can be written as a decimal or a percent.
A decimal can be written as a fraction or a percent.
A percent can be written as a fraction or a decimal.



You can use a percent to describe any part of one whole.
1 whole = 100%

- What percent of this shape is shaded?



$\frac{3}{4}$ of the shape is shaded.



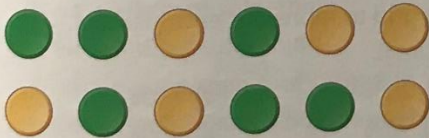
Think: Percent means "out of 100," so we need to write an equivalent fraction with hundredths.

$$\frac{3}{4} \begin{matrix} \xrightarrow{\times 25} \\ = \\ \frac{75}{100} = 75\% \\ \xleftarrow{\times 25} \end{matrix}$$

$\frac{75}{100}$ is the same as 0.75.
So, 0.75 of the shape is shaded.

75% of the shape is shaded.

- What percent of this set of counters are yellow?



$\frac{6}{12}$ of the counters are yellow.

$$\frac{6}{12} = \frac{1}{2}$$

And, $\frac{1}{2} = 0.50 = 50\%$

50% of the counters are yellow.




Once you have read through the pages provided, there are activities waiting on:

Dreambox (Solving percent problems)

Netmath (Converting numbers into percentages)

I am also providing some questions from your textbook, for those of you who would like to try pencil to paper.

5. What percent of each set is shaded? Show how you found your answers.

a)  b)  c) 

6. Is each fraction greater than or less than 50%? Explain how you know.

a) $\frac{7}{10}$ b) $\frac{3}{4}$ c) $\frac{11}{25}$ d) $\frac{6}{6}$

7. Luis used a calculator to find a decimal and a percent equal to $\frac{1}{4}$. How might Luis have done this?

8. Use the data in the table. Is each statement true or false? Explain how you know.


a) More than 50% of the audience were adults or seniors.
 b) Of the audience, $\frac{58}{100}$ were children or teens.
 c) More than $\frac{1}{4}$ of the audience were adults.
 d) Less than 0.5 of the audience were teens or adults.

Age Group	Percent
Children	13%
Teens	45%
Adults	34%
Seniors	8%

9. Which is least? Which is greatest? How do you know?
 10% $\frac{1}{10}$ 0.01

10. Ravi got 18 out of 20 on a math quiz. Karli got 85% on the quiz. Whose mark was greater? How do you know?

11. Write a percent that represents:
 a) a very little of something
 b) almost all of something
 c) a little more than $\frac{3}{4}$ of something
 d) between 0.25 and 0.50 of something
 How did you choose each percent?



Reflect

Tuesday/Thursday Activities:

1. Practice Facts (we all need a good understanding of our basic facts! 😊)

Follow the link www.mathplayground.com, then select Math Games

- a. Under the heading "Multiplication Games", click on the purple bar "More Multiplication Games"
- b. Scroll down and choose the game "Multiplication Blocks"

(the object of the game is to blast away factors. Under options you can choose your speed, difficulty and mode - start at normal, then challenge yourself as you get better!)

2. Also on mathplayground, if you haven't tried the percent game "Decention Jr" from last week, give it a try. OR challenge yourself to the next level and try "Decention"

Just scroll to the orange "More Fraction Games" bar, and under the Cranium challenges section choose Decention Jr, or Decention.

Have a fantastic week and don't forget our Team meeting on Thursday at 2pm. I know it's kind of hectic and busy, but it's fun to see everyone for a bit. Hope to see you all there! 😊