



مؤسسة الإمارات  
للتعليم المدرسي  
EMIRATES SCHOOLS  
ESTABLISHMENT



# SUBJECT – MATHEMATICS

GRADE – 6

Chapter 2 – Lesson 1

Understand Percents



# Objective of Session

To Understand Percents



## Let's Start....



## Instructions

- Login into LMS and complete the Discussion Activity
- 4 Minutes to complete the activity



What do you know about Percent or Percentage?

Viewed by: 0 student(s)

🕒 From Sep 21, 2021

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# Vocabulary:

## Percentage

A **percent** is a ratio, or rate, that compares a number to 100. *Percent* means *per hundred* and is represented by the symbol %.

For example, 50% means 50 per 100 and is read as *fifty percent*. It represents the ratio 50 : 100, 50 to 100, or  $\frac{50}{100}$ .



## INTRODUCTION

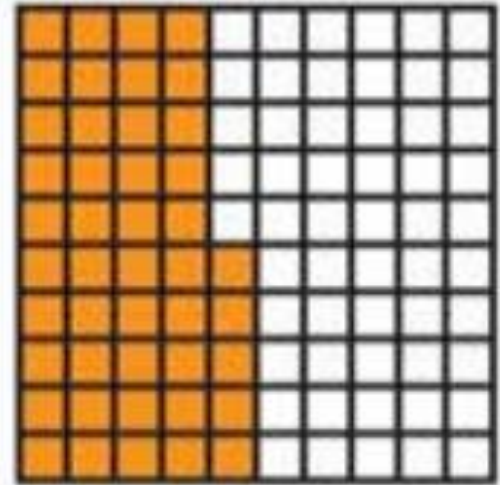
### Example

45% means 45 per 100

45 : 100, 45 to 100, or  $\frac{45}{100}$

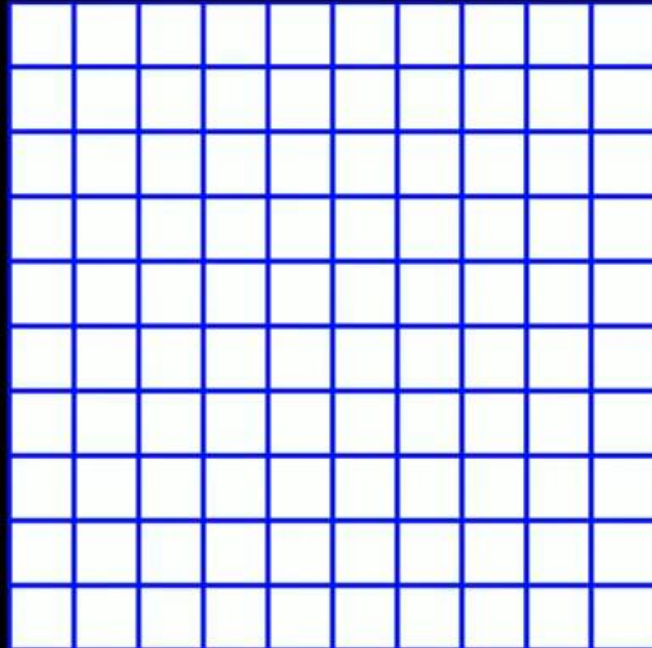
*forty-five percent*

### Model





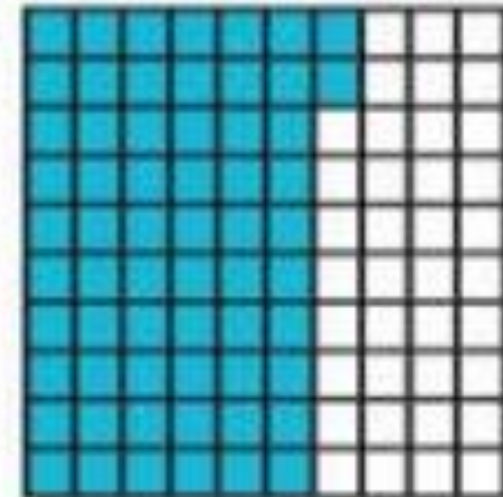
Shade 20% of the square below.





What percent is represented by the  $10 \times 10$  grid?

**Identify the number of shaded squares.  
How many squares are shaded?**



**Write the ratio that compares the number of shaded squares to the total number of squares**

**The ratio is 62 : 100**

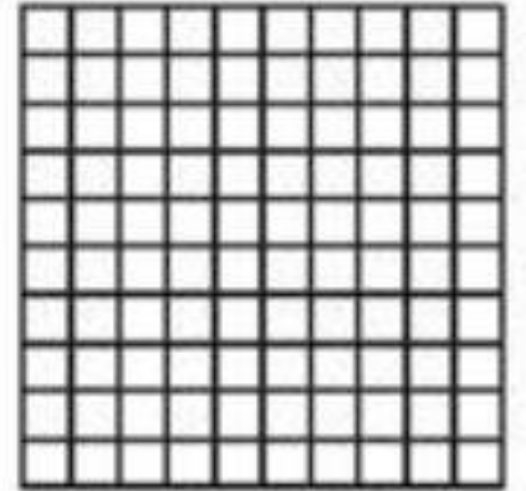
**So, the percent represented by the  $10 \times 10$  grid is 62 %**

## Guided Practice

## Chapter 2, Lesson 1- Understand Percents



A middle school newspaper surveyed the student body and found that 14% of the students surveyed chose horses as their favorite animal. Shade the  $10 \times 10$  grid to model 14%.



**14 % means 14 per 100. There are 100 squares in a  $10 \times 10$  grid. To model 14%, shade 14 squares on the grid**

# Guided Practice



# Vocabulary:

## Percentage

A **percent** is a ratio, or rate, that compares a number to 100. *Percent* means *per hundred* and is represented by the symbol %.

For example, 50% means 50 per 100 and is read as *fifty percent*. It represents the ratio 50 : 100, 50 to 100, or  $\frac{50}{100}$ .



## Use Bar Diagrams to Model Percents

What percent is represented by the bar diagram?



The bar diagram is divided into 5 equal-size sections

**Each section represents 20 %**

**How many sections are shaded = 2**

So, the percent represented by the bar diagram =  $2 \times 20\%$   
= 40%



**Independent  
Practice**

$$100/5 = 20$$





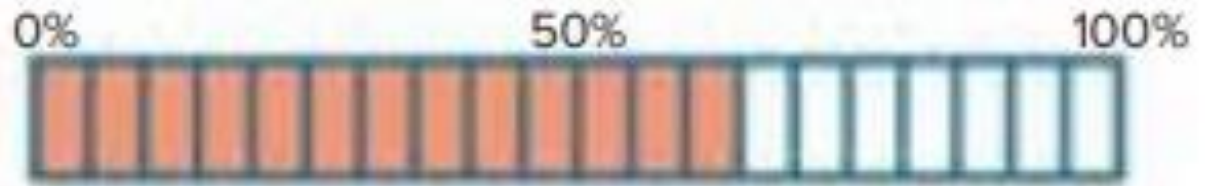


## INTRODUCTION

**Use a bar diagram to model 65%.**

Draw a bar to represent 100%. Divide the bar into 20 equal-size sections because 65% is a multiple of 5.

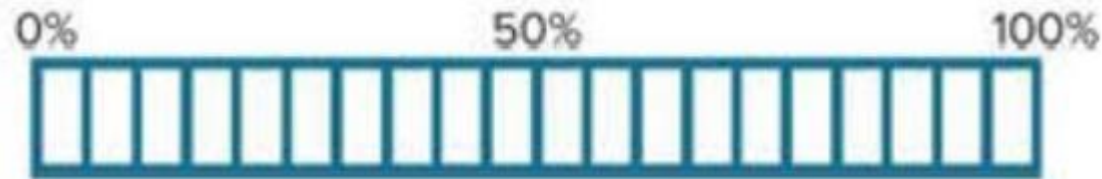
0% 50% 100%



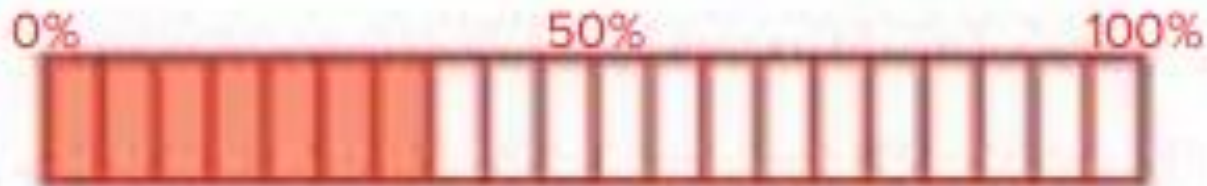


Draw a bar diagram to model 35%.

Draw a bar to represent 100%. Divide the bar into 20 equal-size sections because 35% is a multiple of 5



Each section represents 5%, shade 7 sections to represent 35%



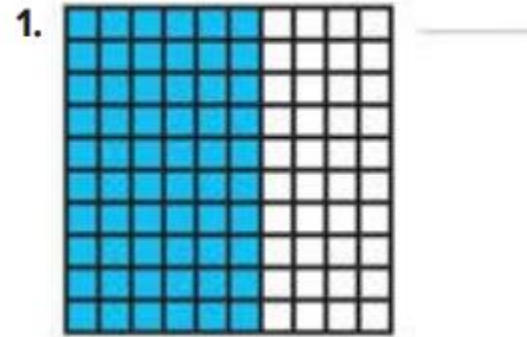
## Guided Practice

# Chapter 2, Lesson 1- Understand Percents

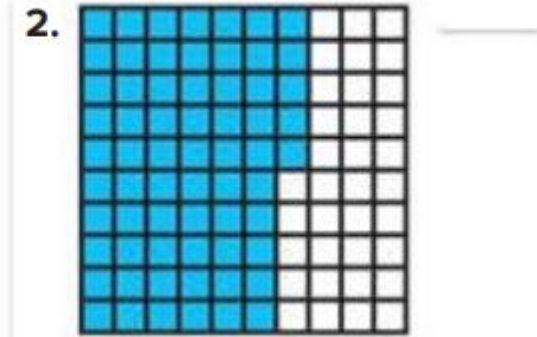


## Independent Practice

For Exercises 1 and 2, identify the percent represented by each  $10 \times 10$  grid. (Example 1)



60%

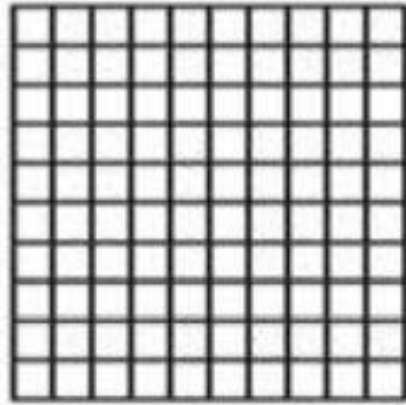


65%



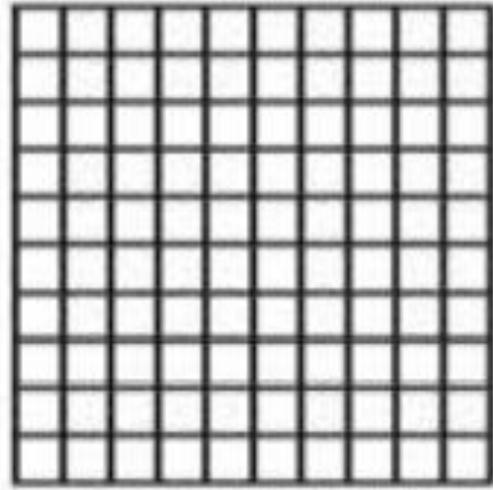
## Independent Practice

3. In a school survey, 12% of the students surveyed said they like camping. Shade the  $10 \times 10$  grid to model 12%. (Example 2)





4. Of the students in the lunch line, 9% said they were buying strawberry milk. Shade the  $10 \times 10$  grid to model 9%. (Example 2)



**Guided  
Practice**

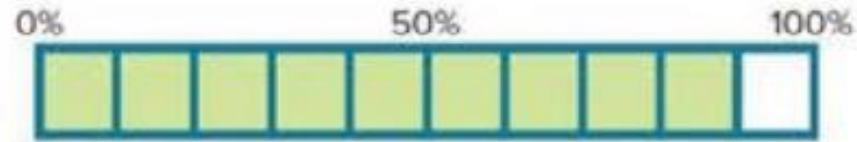
# Chapter 2, Lesson 1- Understand Percents



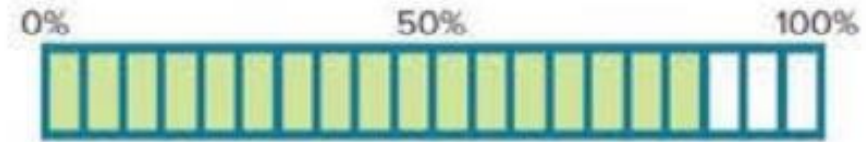
## Independent Practice

For Exercises 5 and 6, identify the percent represented by each bar diagram. (Example 3)

5. \_\_\_\_\_



6. \_\_\_\_\_



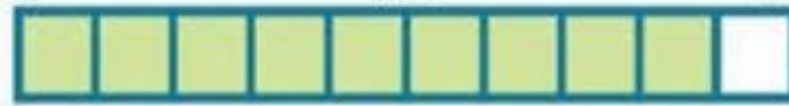
# Chapter 2, Lesson 1- Understand Percents



## Independent Practice

For Exercises 5 and 6, identify the percent represented by each bar diagram. (Example 3)

5. \_\_\_\_\_



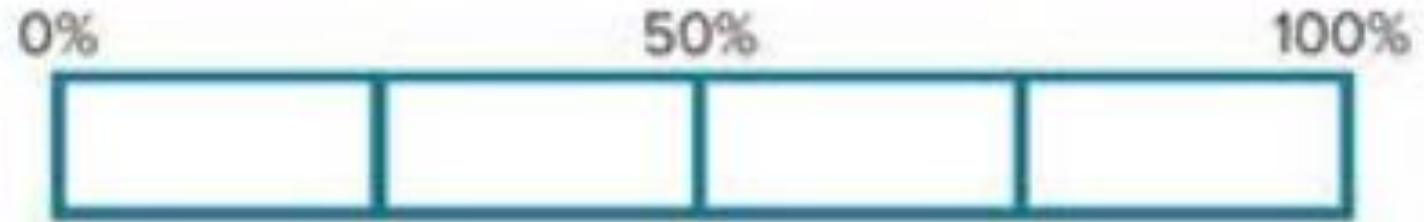




## Independent Practice

7. Shade the bar diagram to model 25%.

(Example 4)



# What we learned today

What Have I  
Learned Today?



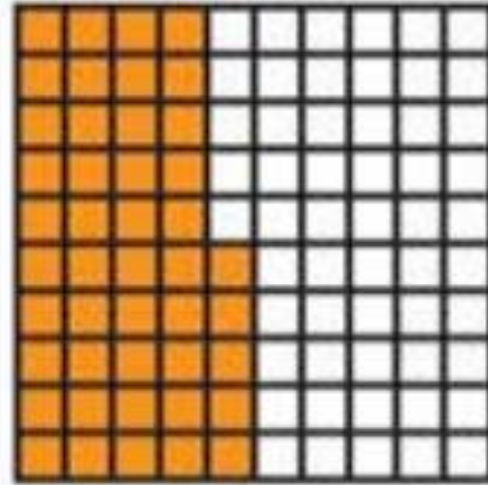
## Example

45% means 45 per 100

45 : 100, 45 to 100, or  $\frac{45}{100}$

*forty-five percent*

## Model



A white, hand-drawn style thought bubble sticker is centered on a brown corkboard. The bubble has a small tail pointing downwards. Inside the bubble, the words "Thank" and "you!!" are written in a black, casual, handwritten font. "Thank" is on the top line and "you!!" is on the bottom line, slightly indented to the right.

Thank  
you!!