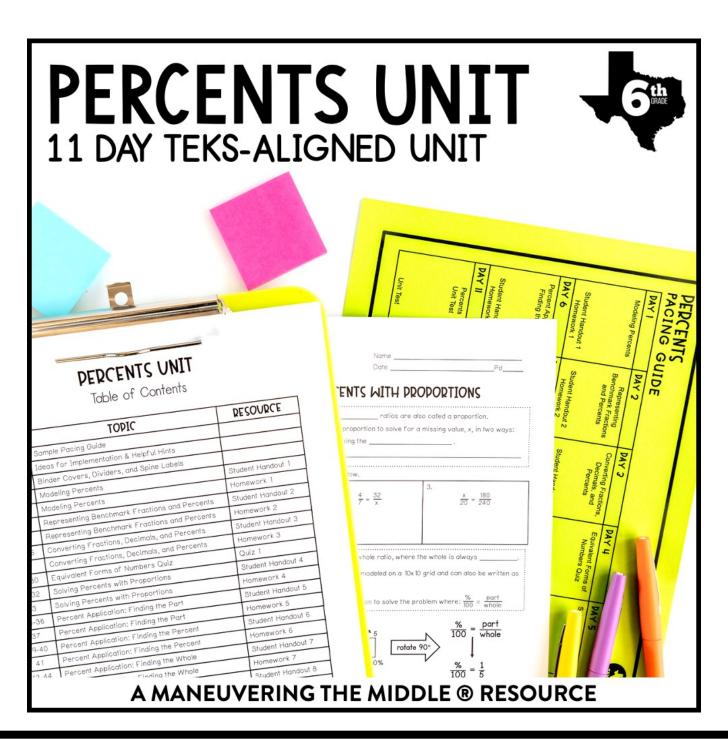
## learning focus:

- convert between fractions, decimals, and percents
- $\checkmark$  represent benchmark fractions and percents
- model and apply percents to real-world situations to find the percent, part, and whole





an 11 day TEKS-aligned unit

TEKS: 6.4E, 6.4F, 6.4G, 6.5B, 6.5C

# ready-to-go, scaffolded student materials

### **PERCENTS UNIT**

Table of Contents

PAGE	TOPIC	RESOURCE	
4	Sample Pacing Guide		
5-6	Ideas for Implementation & Helpful Hints		
7-16	Binder Covers, Dividers, and Spine Labels		
17-18	Modeling Percents	Student Handout 1	
19	Modeling Percents Homework 1		
21-22	Representing Benchmark Fractions and Percents Student Handou		
23	Representing Benchmark Fractions and Percents Homework 2		
25-26	Converting Fractions, Decimals, and Percents Student Han		
27	Converting Fractions, Decimals, and Percents	Homework 3	
29-30	Equivalent Forms of Numbers Quiz Quiz 1		
31-32	Solving Percents with Proportions Student Handout		
33	Solving Percents with Proportions Homework 4		
35-36	Percent Application: Finding the Part	Student Handout 5	
37	Percent Application: Finding the Part Homework 5		
39-40	Percent Application: Finding the Percent	Student Handout 6	
41	Percent Application: Finding the Percent	Homework 6	
43-44	Percent Application: Finding the Whole	Student Handout 7	
45	Percent Application: Finding the Whole	Homework 7	
47-48	Mixed Practice with Percents Student Handout 8		
49	Mixed Practice with Percents	Homework 8	
51-54	Percents Unit Study Guide Study Guide		
55-56	Percents Unit Test Test		
57-58	58 *Bonus – Mini-Quiz for FDP Fluency Mini Quizzes		

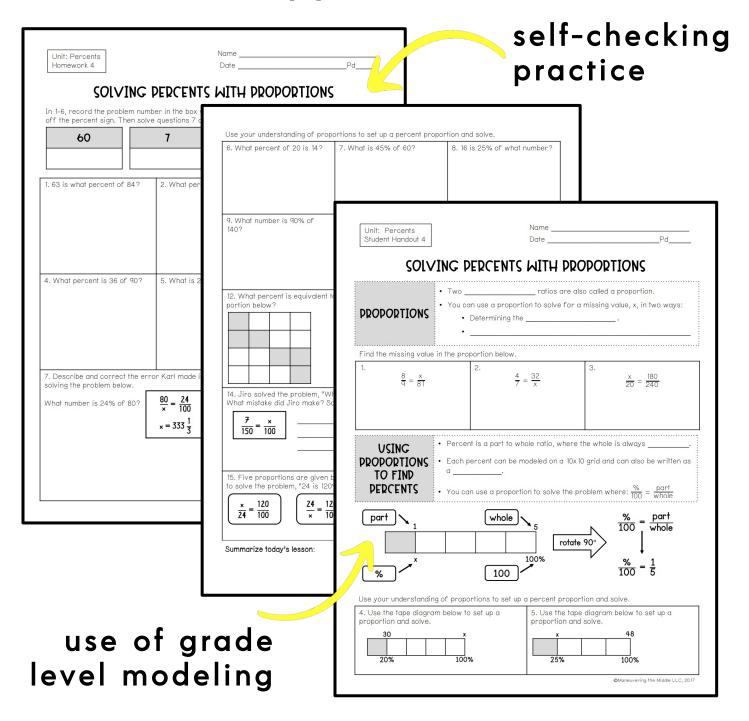
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# student friendly + real-world application





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# streamline your planning process with unit overviews

### **PERCENTS**

### DEADINESS

6.4G Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve

6.5B Solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole including the use of concrete and pictorial

### SUPPORTING

6.4E Represent ratios and percents with concrete models, fractions, and decimals.

**6.4F** Represent benchmark fractions and percents, such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10-by-10 grids, strip diagrams, number lines, and numbers

6.5C Use equivalent fractions, decimals, and percents to show equal parts of the same



key vocabulary



Equivalent Forms of

Numbers Quiz

vertical alignment

sample

pacing

calendar

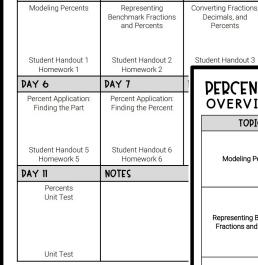
### **BIG IDEAS**

- · Proportional relationships ex
- · Proportional relationships ar

### ESSENTIAL QUESTION

- How do proportions explain
- · What information and strate
- · When would estimation be a

### DEDCENTS PACING GUIDE



teaching ideas



DAY 5

Solving Percents with

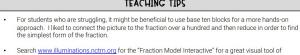
### DEDCENTS **OVERVIEW**

DAY 3

TOPIC	
	•
Modeling Percents	

Representing Benchmark Fractions and Percents





Consider setting up a large number line from 0 to 2 and marking it off at the fourths. This could be consider setting up a larger antime interior to 2 and intalining for the die volunts. This could accomplished with Scotch® Expressions tape on the whiteboard. Then, place a marker at a specific point and ask students to determine the number. This will promote critical thinking skills as they have to use the number line and reasonableness to estimate. To make this more difficult, place multiple markers or change the scale of the number line.

Some teachers like to use the phrase "DP," or Dr. Pepper to remind students which way the decima moves when converting between decimals and percents.

This can be a key number sense skill for middle school math. It is easy to just tell students to divide, but Converting Fractions. you really want these conversions to become fluid. This will allow students to eliminate so much additional work and to build on their problem solving skills. Decimals, and Percents

There are several ways to determine the percent of a number, including an equation, a proportion, or a tape diagram (percent bar). For students who struggle to understand what is happening in the problem, I suggest having them set up a proportion every time Percent of a Quantity

Consider using a similar problem and similar information to show students how to set up problems and solve for different parts of the equation/proportion.

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# unit study guide + assessments

Unit: Percents Quiz 1	NamePa	quizzes
QUIZ: EQUIVALENT FORM  Answer the questions below. Be sure to sho  1. A fruit juice box contains 6% juice. How as a decimal?	1 w your work.	editable unit test
2. The students in PE have spent $\frac{17}{20}$ of t What decimal is equivalent to $\frac{17}{20}$ ?	Unit: Percents Review	NamePd
3. The model at the right best represents		
4. Which set of numbers is equivalent to A. $0.75, \frac{3}{5}$ B  C. $\frac{3}{4}, 0.075$ D		
5. The model below represents the perce decimal best represents the percent of p	3. About 29% of the world's surface covered by land. Shade the model be represent the percent covered by wa	SIXTH GRADE CURRICULUM  DEDCENTS
	I CAN SHOW EQUAL PARTS OF A  5. The model below shows how much remaining. Fill in the blanks below will equivalent forms of the amount remaining.	UNIT FIVE: ANSWER KEYS
answer keys included		@MANEUVERING THE MIDDLE, 2017

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