

TEKS Cluster: Proportional Reasoning  
 TEKS Subcluster: Fractions/Decimals/Percents  
 Student Expectations: 6.4(E), 6.4(F), 6.4(G), 6.5(B), 6.5(C)

Activities Summary: Students are introduced to a new way to talk about parts of a whole – percents. They learn the relationship between fractions, decimals, and percents, and solve simple percent problems. Activities may be organized and delivered in two topics: **The Connection Between Fractions, Decimals, and Percents** and **Percent Problems**.

Activity Title Student Expectations	Activity Topic	Type			Delivery		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
The Connection Between Fractions, Decimals, and Percents							
A New Way to Describe Parts of a Whole 6.4(E), 6.5(C)	<b>The Meaning of Percent</b> Students learn to use percent to describe part of a whole and connect percents with fractions and decimals.	✓	✓		✓		
Models of Fractions, Decimals, and Percents 6.4(F), 6.5(C)	<b>Use Models to Connect Fractions, Decimals, and Percents</b> Students model decimals on a grid, a number line, and in a strip diagram. Then they write equivalent fractions, decimals, and percents.	✓	✓		✓		
“Easy” Fractions and Percents 6.4(F)	<b>Benchmark Fractions and Percents</b> Students model benchmark fractions, decimals, and percents on a grid, a number line, and in a strip diagram. This activity includes thinking problems where students use the models they created and reasonableness to find solutions.	✓	✓		✓		
Fraction, Decimal, Percent Conversions 6.4(F), 6.4(G), 6.5(C)	<b>Generating Equivalent Fractions, Decimals, and Percents</b> Students use mental math to identify equivalent fractions, decimals, and percents. Some fractions are beyond 100%.	✓	✓		✓		
Real-World Fractions, Decimals, and Percents 6.4(E), 6.4(G), 6.5(C)	<b>Fraction, Decimal, Percent Conversions</b> Students estimate to find the closest benchmark percent and convert among fractions, decimals, and percents.			✓		✓	
Fraction, Decimal, Percent Conversion Practice 6.4(G), 6.5(C)	<b>Find the Mistake</b> This find-the-mistake activity includes incorrect models for fractions, decimals, and percents and incorrect equations.			✓		✓	

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		new learning	intervention	practice	teacher-facilitated	small groups	stations
Percent Problems							
The Percent Proportion 6.5(B)	<b>Solving Part, Whole, Percent Problems</b> Students use percent bars and problem bars to organize information to set up a percent proportion and solve.	✓	✓		✓		
Part, Whole, Percent Match Up 1 6.5(B)	<b>Solving Part, Whole, Percent Problems</b> In this card sort, students match problems with models and equations and solve.	✓	✓		✓		
Part, Whole, Percent Match Up 2 6.5(B)	<b>Solving Part, Whole, Percent Problems</b> In this card sort, students match word problems, proportions, models and solve problems. This activity uses relatively the same numbers for each problem to focus attention on the structure of different types of percent problems.			✓		✓	
Part, Whole, Percent Problems Practice 6.5(B)	<b>Find the Mistake</b> This find-the-mistake activity includes incorrectly set up proportions and proportions that are solved incorrectly.			✓		✓	