

Grade 6 Unit 3: Unit Rates and Percentages

Lessons 1–9: Unit Conversions and Rates

Explore, Play, and Discuss	- I understand that if two ratios have the same rate per 1, they are equivalent ratios. - When measurements are expressed in different units, I can decide who is traveling faster or which item is the better deal by comparing “how much for 1” of the same unit.	
	Activity Suggestions: - Lesson 4, Activity 3: Explore different ways to think about division. - Lesson 5: Students compare speeds and prices. In this context, recognize that finding a rate per 1 is an effective strategy to do so. If there is not sufficient time for the entire lesson, use Activity 2 and 3.	Assessment Suggestions: - Check Your Readiness assessment: Administer all items at least a couple of days before beginning instruction to gather data. Use the guidance provided with each problem to adjust instruction so that students can access the math in the unit. - Lesson 5 cool-down

Deep Dive	I understand that if two ratios have the same rate per 1, they are equivalent ratios.	
	Activity Suggestions: - Lesson 6 introduces unit rates and asks students to interpret two unit rates associated with a ratio. Focus on how students interpret the two unit rates in terms of a unit rate rather than a rate or ratio with quantities greater than 1. - Lesson 7, Activity 2. Emphasizes that when two ratios are equivalent, they have the same unit rate.	Assessment Suggestions: - Lesson 6 cool-down - Lesson 7, Activity 3 - Lesson 7 cool-down

Synthesize and Apply	I can convert measurements from one unit to another, using double number lines, tables, or by thinking about "how much for 1."	
	Activity Suggestions: ➤ Lesson 8, Activity 2. Answer questions in the context of speed. ➤ Lesson 9. Students are working with unit rates without scaffolds.	Assessment Suggestions: ➤ Lesson 8 cool-down ➤ Lesson 9 cool-down

Ongoing Practice	- Assign one or more of the distributed practice problem sets from Lessons 1–9 to be completed over the time period that the section is being worked on. - These could also be lagging, so that students are working on practice problems from the previous section or unit during this section or unit. - Specify which problems students should submit, or let them choose. - Note: Several existing platforms already have IM's practice problems loaded so that students can complete and submit them online. Some can be autoscored.
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Anytime Resources	- Any of the warm-up activities from Lessons 1–9 - Lesson 1
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Lessons 10–17: Rates and Percentages

Explore, Play, and Discuss	I can use double number line diagrams to solve different problems like “What is 40% of 60?” or “60 is 40% of what number?”	
	Activity Suggestions: - Lesson 10, Activity 3. Students are reasoning about the monetary value of different percentages of a dollar. - Lesson 11. Finding percentages of quantities that are not 100 or 1.	Assessment Suggestions: - Lesson 11 cool-down - Tell students to find examples of percentages in their lives that they can share.

Deep Dive	I can choose and create diagrams to help me solve problems about percentages.	
	Activity Suggestions: - Lesson 12. Students use tape diagrams to find percentages. If there are time constraints when giving this lesson, Activity 4 is considered optional. - Lesson 14, Activity 2. Solving percentage problems in the context of shopping.	Assessment Suggestions: - Lesson 12 cool-down - Lesson 13 cool-down

Synthesize and Apply	I can choose how to use unit rates to solve problems.	
	Activity Suggestions: - Lesson 15, Activity 3 finding percentages with the goal of using a standard procedure $P/100$ times a given number. - Lesson 16 finding percentages in any context.	Assessment Suggestions: - Lesson 15 cool-down - Lesson 16 cool-down - Revisions to previous assessment prompts.

Ongoing Practice

- Assign one or more of the distributed practice problem sets from Lessons 10–17 to be completed over the time period that the section is being worked on.
- These could also be lagging, so that students are working on practice problems from the previous section or unit during this section or unit.
- Specify which problems students should submit, or let them choose.
- Note: Several existing platforms already have IM's practice problems loaded so that students can complete and submit them online. Some can be autoscored.

Anytime Resources

- Any warm up activities from Lessons 10–17
- Lesson 13: benchmark percentages such as 25%, 50%, and 75%.
- The family support materials from this unit provide high-level guidance on the content of this unit and sample problems with answers.