## Unit 3 Lesson 13: Benchmark Percentages

### 1 What Percentage Is Shaded? (Warm up)

#### Student Task Statement

What percentage of each diagram is shaded?



### 2 Liters, Meters, and Hours

#### Student Task Statement

* 1. How much is 50% of 10 liters of milk?
	2. How far is 50% of a 2,000-kilometer trip?
	3. How long is 50% of a 24-hour day?
	4. How can you find 50% of any number?
	5. How far is 10% of a 2,000-kilometer trip?
	6. How much is 10% of 10 liters of milk?
	7. How long is 10% of a 24-hour day?
	8. How can you find 10% of any number?
	9. How long is 75% of a 24-hour day?
	10. How far is 75% of a 2,000-kilometer trip?
	11. How much is 75% of 10 liters of milk?
	12. How can you find 75% of any number?



#### Activity Synthesis







### 3 Nine is . . .

#### Student Task Statement

Explain how you can calculate each value mentally.

1. 9 is 50% of what number?
2. 9 is 25% of what number?
3. 9 is 10% of what number?
4. 9 is 75% of what number?
5. 9 is 150% of what number?



### 4 Matching the Percentage (Optional)

#### Student Task Statement

Match the percentage that describes the relationship between each pair of numbers. One percentage will be left over. Be prepared to explain your reasoning.

1. 7 is what percentage of 14?
2. 5 is what percentage of 20?
3. 3 is what percentage of 30?
4. 6 is what percentage of 8?
5. 20 is what percentage of 5?
* 4%
* 10%
* 25%
* 50%
* 75%
* 400%

#### Images for Activity Synthesis





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