### Lesson 10 Practice Problems

1. Priya is sharing 24 apples equally with some friends. She uses division to determine how many people can have a share if each person gets a particular number of apples. For example, $24÷4=6$ means that if each person gets 4 apples, then 6 people can have apples. Here are some other calculations:
* $24÷4=6$
* $24÷2=12$
* $24÷1=24$
* $24÷\frac{1}{2}=?$
	1. Priya thinks the “?” represents a number less than 24. Do you agree? Explain or show your reasoning.
	2. In the case of $24÷\frac{1}{2}=?$, how many people can have apples?
1. Here is a centimeter ruler.
	1. Use the ruler to find $1÷\frac{1}{10}$ and $4÷\frac{1}{10}$.
	2. What calculation did you do each time?
	3. Use this pattern to find $18÷\frac{1}{10}$.
	4. Explain how you could find $4÷\frac{2}{10}$ and $4÷\frac{8}{10}$.
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1. Find each quotient.
	1. $5÷\frac{1}{10}$
	2. $5÷\frac{3}{10}$
	3. $5÷\frac{9}{10}$
2. Use the fact that $2\frac{1}{2}÷\frac{1}{8}=20$ to find $2\frac{1}{2}÷\frac{5}{8}$. Explain or show your reasoning.
3. Consider the problem: It takes one week for a crew of workers to pave $\frac{3}{5}$ kilometer of a road. At that rate, how long will it take to pave 1 kilometer?
* Write a multiplication equation and a division equation to represent the question. Then find the answer and show your reasoning.
* (From Unit 4, Lesson 9.)
1. A box contains $1\frac{3}{4}$ pounds of pancake mix. Jada used $\frac{7}{8}$ pound for a recipe. What fraction of the pancake mix in the box did she use? Explain or show your reasoning. Draw a diagram, if needed.
* (From Unit 4, Lesson 7.)
1. Calculate each percentage mentally.
	1. 25% of 400
	2. 50% of 90
	3. 75% of 200
	4. 10% of 8,000
	5. 5% of 20
* (From Unit 3, Lesson 14.)



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