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UNIT 2 LESSON 5

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| AIM: | SWBAT write word problems  |

**THINK ABOUT IT!**

Which situation below can be modeled and solved using the expression $2\frac{3}{4}÷1\frac{1}{2}$? Explain how you know.

Circle all that apply.

1. Tia has 2¾ oz. of coffee left in her coffee can. She needs 1½ oz. to make a cup of coffee. How many cups of coffee can she make?
2. Ned needs 2¾ cups of sugar to make a birthday cake for his friend. He has 1½ cups of sugar. What fraction of one cake can he make with the sugar he has?
3. Nadia has 2¾ jars of milk. Each jar, when full, contains ½ gallon of milk. How much milk does she have?
4. Dana has the perfect amount of sugar to make 1 ½ cakes for a party. If he has 2 ¾ cups of sugar, how much sugar does he use for one cake?

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Key Point

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ expressions represent a total being split into a number of \_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ sized groups. |

**Interaction with New Material**

**Ex. 1)** Write a word problem for the expression: $\frac{3}{4}÷\frac{3}{8}$

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**PARTNER PRACTICE**

* CFS for top quality work
	+ Model is drawn
	+ Quotient is named
	+ Unit(s) is picked
	+ Situation is written that is interesting, realistic, short, and clear, and has all information needed for solving.

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| *Bachelor Level* |

1. Which problem below can be represented by and solved using the expression:

$$\frac{1}{2}÷\frac{1}{8}$$

* 1. Tina uses $\frac{1}{2}$ oz. of cinnamon each time she makes a batch of coffee cake topping. How many batches can she make if she has $\frac{1}{8}$ oz. left in her spice jar?

* 1. Bonnie Baker has a total of $\frac{1}{2}$ pound of chocolate. She needs $\frac{1}{8}$ pound of chocolate for each batch of brownies she bakes. How many batches of brownies can Bonnie bake with $\frac{1}{2}$ pound of chocolate?
	2. Eugenia has $\frac{1}{2}$ yard of ribbon. She used $\frac{1}{8}$ of the ribbon to make party decorations. How much ribbon did she use?
	3. Alison is a pitcher on a baseball team. She struck out $\frac{1}{2}$ of the batters she faced and walked $\frac{1}{8}$ of the batters she faced. What fraction more of the batters she faced resulted in a strikeout?

Explain how you know.

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| *Master Level* |

1. Write a word problem that matches the expression below. Remember to first model and solve the expression.

$$1\frac{3}{4}÷\frac{1}{2}$$

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**INDEPENDENT PRACTICE**

* CFS for top quality work
	+ Model is drawn
	+ Quotient is named
	+ Unit(s) is picked
	+ Situation is written that is interesting, realistic, short, and clear, and has all information needed for solving.

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| *Bachelor Level* |

1. Which problem below can be represented by and solved using the expression:

$$\frac{5}{12}÷\frac{1}{6}$$

* 1. Angel ran $\frac{1}{6}$ of a race. The race is a total of $\frac{5}{12}$ mile long. How far did Angel run?
	2. Susan is a potter. She has $\frac{1}{6}$ pound of clay and needs $\frac{5}{12}$ pound of clay to make a pot. What fraction of the total amount of clay that she needs does Susan have?
	3. Adam has $\frac{1}{6}$ yard of rope that he wants to cut into segments that are each $\frac{5}{12}$ inch long. How many segments can he make?
	4. There are 12 inches in a foot. A piece of wire is $\frac{5}{12}$ foot long. Hector needs to cut pieces of wire that are $\frac{1}{6}$ foot long. How many pieces of wire can he cut?

Explain how you know.

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| *Master Level* |

1. Write a word problem that matches the expression below. Remember to first model and solve the expression.

$$\frac{9}{5}÷\frac{1}{2}$$

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1. Which word problem matches the model provided? Find the quotient and explain the match you selected.



$$\frac{3}{9}$$

$$\frac{3}{9}$$

1. Kristina road the B102 for $\frac{7}{9}$ mile. Her friend Anna road for $\frac{1}{3}$ of that distance. How far did Anna ride the bus?
2. Charlie measured his rectangular closet and found that the length is $\frac{7}{9}$ meter and the width is $\frac{3}{9}$ meter. What is the area of Charlie’s closet?
3. Michael collected $\frac{7}{9}$ kilograms of trash. He put the trash in separate bags that each hold $\frac{1}{3}$ kilogram of trash. How many bags did he use?
4. A box weighs $\frac{1}{3}$ ton. The contents were taken out and separated into containers that each hold $\frac{7}{9}$ pound. How many containers were used to hold all of the contents of the box?

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| *PhD Level* |

1. Write a two-step problem that matches the expression below

$$\frac{5}{3}÷(\frac{3}{4}-\frac{1}{2})$$

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* CFS for top quality work
	+ Model is drawn
	+ Quotient is named
	+ Unit(s) is picked
	+ Situation is written that is interesting, realistic, short, and clear, and has all information needed for solving.

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

1. Write a real world problem for the expression $\frac{3}{4}÷\frac{1}{8}$. Include a tape diagram and the quotient.

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