Name_____Date_____

MULTIPLYING AND DIVIDING FRACTIONS

APPLICATIONS

HOW DO YOU KNOW WHICH OPERATION TO USE IN A WORD PROBLEM?

LOOK FOR KEY WORDS

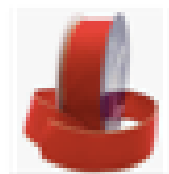| DIVISION	MULTIPLICATION
How many are in ___? cut in equal pieces split up in equal parts	"of" repeated addition

EXAMPLE 1:

total

Georgia has a piece of ribbon that is ⅔ yards long. She is doing a craft that requires the ribbon to be cut into 12 pieces of equal size. How long will each piece be?

division

$\frac{2}{3} \div 12$

Questions to Ponder:

1. What is the question asking?

2. Which operation will be used to answer the question? How do you know?

NOTES: CC.6.NS.1

EXAMPLE 2:

Eden carried $\frac{1}{2}$ gallon of water on a hike. She drank $\frac{2}{3}$ of the water. How much water (in gallons) did she drink?

key word

multiply

$\frac{2}{3} \times \frac{1}{2}$

Questions to Ponder:

1. What is the question asking?

2. Which operation will be used to answer the question? How do you know?

EXAMPLE 3:

Repeated addition

Ethan worked 4 $\frac{1}{2}$ hours each day for 3 days mowing lawns. How many total hours did he work in the 3 days?

multiply

$4\frac{1}{2} \times 3$

Questions to Ponder:

1. What is the question asking?

2. Which operation will be used to answer the question? How do you know?

NOTES: CC.6.NS.1

EXAMPLE 4:

(handwritten: total)

(handwritten: ☆ How many ²/₃ are in 9⅓?)

Carol makes $9\frac{1}{3}$ cups of snack mix. She puts all the snack mix into plastic bags. She puts $\frac{2}{3}$ cup of snack mix in each bag. How many plastic bags does Carol need?

(handwritten: divide $9\frac{1}{3} \div \frac{2}{3}$)

> ## Questions to Ponder:
>
> 1. What is the question asking?
>
> 2. Which operation will be used to answer the question? How do you know?

EXAMPLE 5:

(handwritten: ☆ Repeated addition)

A chef bought 3 bags of beans. Each bag contains $1\frac{2}{3}$ kilograms of beans. How many kilograms of beans did the chef buy?

(handwritten: multiply $1\frac{2}{3}$ $1\frac{2}{3}$ $1\frac{2}{3}$)

> ## Questions to Ponder:
>
> 1. What is the question asking?
>
> 2. Which operation will be used to answer the question? How do you know?