

Name _____

Mixed Operation Fraction Word Problems Guided Lesson Explanation

1. Step 1) Start by determining facts of the problem. What do we know?

- a) For every $1/2$ pound of meat that we prepare we will need a bag.
- b) For every $1/4$ pound of cheese that we prepare we will need a bag.

Step 2) Determine how many bags she will use for a pound.

- a) 1 pound of meat $\div 1/2 = 2$ bags per pound of meat
- b) 1 pound of cheese $\div 1/4 = 4$ bags per pound of cheese

Step 3) Determine the total number of bags by multiplying the number of pounds Julia needs.

9 pounds of meat $\times 2$ bags per pound = 18 bags

5 pounds of cheese $\times 4$ bags per pound = 20 bags

18 bags of meat + 20 bags of cheese = 38 bags

2. Step 1) You can start by multiplying the number of intervals by the mileage to find the distance covered for each exercise. You can leave them as improper fractions for this step.

Monday - $3 (1/4 \text{ mile}) = 3/4$ of a mile $2 (1/8 \text{ mile}) = 2/8$ of a mile

Tuesday - $8 (1/6 \text{ mile}) = 8/6$ of a mile $7 (1/4 \text{ mile}) = 7/4$ of a mile

Thursday - $4 (1/4 \text{ mile}) = 4/4$ of a mile $3 (1 \text{ mile}) = 3$ miles

Friday - $6 (1/4 \text{ mile}) = 6/4$ of a mile $5 (1/4 \text{ mile}) = 5/4$ of a mile

Step 2) To work with less numbers, add all the fractions with the same denominator.

Fourths = $3/4 + 4/4 + 6/4 + 7/4 + 5/4 = 25/4$

Sixths = $8/6$

Eighths = $2/8$

Wholes = 3

Step 3) Find a common denominator. 4, 6, and 8 all go into 24. Convert the fractions to 24ths:

$25/4 = 150/24$

$8/6 = 32/24$

$2/8 = 6/24$

3 (stays whole)

Step 4) Add and reduce the fraction to a mixed number.

$150/24 + 32/24 + 6/24 + 3 = 188/24 + 3 = 7 \text{ } 20/24 + 3 = 7 \text{ } 5/6 + 3 = 10 \text{ } 5/6$ miles

