Fraction word problems

Grade 3 Math Word Problems Worksheet

One fine spring morning, best friends Abby and Jessica went to the amusement park to enjoy some amazing rides.

1. Wanting to take things slowly, they first tried the carousel. There are 48 people in line. If 28 of them are kids, what is the fraction of people in line for the carousel that are kids?

2. Next, they decided to try the log ride. They were required to wear life vests to ensure their safety. There are 27 life vests available and 15 of them are colored yellow. What fraction of the life vests are not yellow?

3. After the log ride, they decided to grab something to eat. They bought 2 whole pizzas each. Abby had each of her whole pizzas sliced into four while Jessica had each of hers sliced into 8. Which of them ate more if Abby ate one whole pizza and 3 slices while Jessica ate one whole pizza and 5 slices?
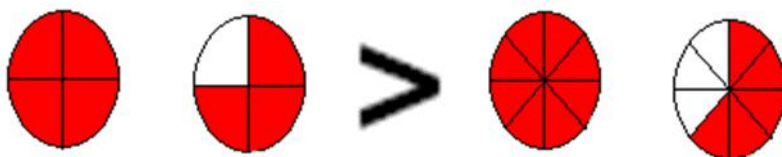
4.   Full from eating, they decided to rest by a pond full of ducks. There are 16 ducks in the pond and 8 of them are male. What is the fraction of male ducks in the pond? What is the fraction of female ducks?

5.   Lastly, they rode the roller coaster. The roller coaster train is composed of 21 cars. If there are 12 empty cars, what is the fraction of empty cars in the roller coaster train?

Answers

1. 28 out of 48 is equal to $\frac{28}{48}$ or simply $\frac{7}{12}$

    The fraction of people in line for the carousel that are kids is $\frac{7}{12}$.

2. If 15 vests are yellow, then 27-15 = 12 vests are not yellow.

    12 out of 27 is equal to $\frac{12}{27}$ or $\frac{4}{9}$

    The fraction of life vests that are not yellow is $\frac{4}{9}$.

3. Abby: 1 whole and 3 out of 4 is equal to $1\frac{3}{4}$ or $1\frac{6}{8}$

    Jessica: 1 whole and 5 out of 8 is equal to $1\frac{5}{8}$; $1\frac{6}{8}$ or $1\frac{3}{4} > 1\frac{5}{8}$

    Abby ate more pizza than Jessica.

4. 8 out of 16 is equal to $\frac{8}{16}$ or simply $\frac{1}{2}$

    The fraction of male ducks in the pond is $\frac{1}{2}$.

    Since half the ducks are male, the other half must be female.

    The fraction of female ducks in the pond is $\frac{1}{2}$.

5. 12 out of 21 is equal to $\frac{12}{21}$ or simply $\frac{4}{7}$

    The fraction of empty cars in the train is $\frac{4}{7}$.