

Date **T: word problems - express quotients with fractions**

Example 2 friends have 5 pieces of cake. They agree to share the cake equally. How many pieces will they get each?

$$5 \div 2 = 2r1 \qquad 5 \div 2 = 2 \frac{1}{2} \text{ pieces each}$$

- 1) 4 friends share 7 pieces of cake equally. How many pieces of cake will they get each?

- 2) A dog owner has 8 tins of dog food, which she shares equally between 3 dogs. How many tins will each dog get?

- 3) 5 friends have 22 liquorice laces, which they share equally. How many pieces of liquorice ace will each of them have?

- 4) Sarah can't decide how to spend the evenings in a week with 3 of her friends. She thinks about spending an exactly equal number of evenings with each friend. Can you tell her how many evenings she would spend with each of her friends?

- 5) A group has 17 cartons of orange juice and 6 children. The teacher tells the class they will all get the same amount of orange juice. How many cartons will each child get?

- 6) The matches in a football league last for 40 hours in total. The coach promises the nine players in his squad that they will all play the same amount of time throughout the season. If he sticks to his promise, how much time will each player play for? (answer in hours)

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Example 2 friends have 5 pieces of cake. They agree to share the cake equally. How many pieces will they get each?

$$5 \div 2 = 2r1 \qquad 5 \div 2 = 2 \frac{1}{2} \text{ pieces each}$$

1) 4 friends share 6 pieces of cake equally. How many pieces of cake will they get each?

$$6 \div 4 = 1r2 \qquad 6 \div 4 = 1 \frac{3}{4}$$

2) A dog owner has 8 tins of dog food, which she shares equally between 3 dogs. How many tins will each dog get?

$$8 \div 3 = 2r2 \qquad 8 \div 3 = 2 \frac{2}{3} \text{ tins each}$$

3) 5 friends have 22 liquorice laces, which they share equally. How many pieces of liquorice lace will each of them have?

$$22 \div 5 = 4r2 \qquad 22 \div 5 = 4 \frac{2}{5} \text{ laces each}$$

4) Sarah can't decide how to spend the evenings in a week with 3 of her friends. She thinks about spending an exactly equal number of evenings with each friend. Can you tell her how many evenings she would spend with each of her friends?

$$7 \div 3 = 2r1 \qquad 7 \div 3 = 2 \frac{1}{3} \text{ evenings}$$

5) A group has 17 cartons of orange juice and 6 children. The teacher tells the class they will all get the same amount of orange juice. How many cartons will each child get?

$$17 \div 6 = 2r5 \qquad 17 \div 6 = 2 \frac{5}{6}$$

6) The matches in a football league last for 40 hours in total. The coach promises the nine players in his squad that they will all play the same amount of time throughout the season. If he sticks to his promise, how much time will each player play for? (answer in hours)

$$40 \div 9 = 4r4 \qquad 40 \div 9 = 4 \frac{4}{9}$$