

RATIO APPLICATION

As you apply ratios to solve real-world situations, consider asking yourself the following questions to guide your thinking and determine reasonableness for your solutions.

What is being
_____?

What information am I
_____ about the
comparison?

Does your solution
make sense in the
context of the
_____?



Practice applying ratios in situations below.

1. Jenna and Becca were both selling cookies door to door. Jenna sold 4 boxes of cookies for every 3 boxes of cookies Becca sold. Combined, they sold a total of 35 boxes of cookies. How many boxes did each girl sell? Sketch a tape diagram to organize your work.

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

2. Latrina is planning to serve hors d'oeuvres at her wedding. She plans on offering 8 hors d'oeuvres for every 3 people. If she has 240 people RSVP to the wedding, how many hors d'oeuvres will she serve? Set up a proportion to solve.

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

Practice applying ratios to real-world situations to solve problems.

3. The ratio of accessible parking spots to general parking spots is 2:75. If a parking lot is designed to hold 385 parking spots, how many more general parking spots than accessible parking spots will there be?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

4. Joel and Rhonda were comparing their classroom economy bank accounts. The sum of their bank account balances was \$160. The ratio of Joel's account balance to Rhonda's account balance was 4:1. How much money does each student have in their account?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

Use your understanding of ratios to answer the question below.

5. A food distributor ships 8 cases of regular soda for every 3 cases of diet soda. Mrs. Lockett asks students to find a number that could represent the number of cases of diet soda the food distributor could ship. Which student(s) complete the task correctly?

BARRIE

27

MARIANA

16

JORDAN

36

HAI

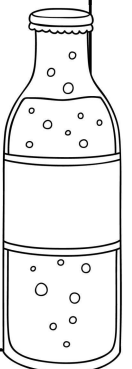
20

VALERIE

11

COLEMAN

51



Summarize today's lesson:

RATIO APPLICATION

Match each correct answer to a letter and complete the riddle below. Not all choices will be used.

<p>1 At a local preschool, there is a ratio of 3 boys to every 4 girls. If there are 245 total preschoolers enrolled, then how many are boys?</p>	<p>5 Jasmine is a receptionist at a doctor's office. She books 36 appointments each day. Four out of every 24 appointments are cancelled. How many appointments are cancelled each day?</p>
<p>2 Stan's Steakhouse has a server to chef ratio of 5 to 2. The total number of servers and chefs is 42. How many servers does Stan's Steakhouse employ?</p>	<p>6 Kendrick's Kennel has 2 spots for cats for every 7 spots for dogs. If he has a total of 144 spots for both cats and dogs, how many more spots does he have for dogs than cats?</p>
<p>3 An amusement park sells child and adult tickets at a ratio of 8:1. On Saturday, they sold 147 more child tickets than adult tickets. How many tickets did the amusement park sell on Saturday?</p>	<p>7 The children's section at a public library has picture books and chapter books with a ratio of 2:3. If there are a total of 500 books in the children's section, then how many chapter books are there?</p>
<p>4 A pair of angles has a ratio of 5:2. If the larger angle measures 105°, then what is the measure of the smaller angle?</p>	<p>8 A movie theater has 24 screens. The ratio of action films to other films currently showing is 1:2. How many action films are currently showing?</p>

A: 168	E: 42	L: 189	G: 98	B: 8	A: 168
T: 6	I: 80	E: 105	J: 18	M: 21	T: 6
H: 50	N: 300	P: 25	C: 30	S: 12	H: 50

WHAT DID ZERO SAY TO EIGHT?

7 6 2 4 8 1 3 5