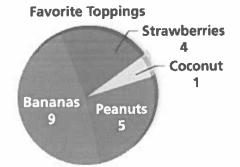
5.1 RATIOS

ESSENTIAL QUESTION: How can you represent a relations
Arction is a comparison of 2 quantities. It says how much of one thing there is compared to another thing.
R तो 105 can be part-to-part, part-to-whole, or whole-to-part.
1)What is the ratio of red crayons to blue crayons? 2 to 6 or 2 '6
This ratio means that for every 2 red evayone there are 6 b. lue crayons
This is a part - to-part ratio. (compares one part to another part)
2)What is the ratio of blue crayons to the total number of crayons? C. 9 or 6 to 8
This ratio means that 6 out of 8 crayons are blue.
This is a part - to -whole ratio. (compares one part to entire amount)
3)What is the ratio of the total number of crayons to red crayons 8° . 2 $_{\rm cv}$ 8 $_{\rm c}$ $_{\rm cv}$
This ratio means that cut of 8 crayons 2 are red.
This is a whole to part ratio. (compares the entire amount to a part)
EXAMPLE 1 WRITING RATIOS 1) Write the ratio of pennies to quarters.
2) Write the ratio of quarters to dimes. $7 + 3$
3) Write the ratio of dimes to the total number of coins. $\frac{3}{3}$ to $\frac{16}{3}$
4) Write the ratio of dimes to pennies. 3 + 0 G

The circle graph shows the favorite ice-cream toppings of several students. Use ratio language to compare the number of students who favor peanuts to the total number of students. C + A = A

Sout of 19 stadents foror



EXAMPLE 2 USING A TAPE DIAGRAM

1)The ratio of your monthly allowance to your friend's monthly allowance is 5 : 3. The monthly allowance total \$40. How much is each allowance?

Howance total \$40. How much is each allowance:

Your friends allowance

Your friends allowance

To find out how much each part is divide 40 - 8.

2)The ratio of small dogs to large dogs at the dog show is 4 : 3. If there are 56 dogs in the show, how many are large dogs?

Large degs 181818 56:7=8

Large degs 181818 Each part equals 8

There are 24 large dogs.

3) The ratio of red pens to blue pens in a package is 2 : 6. If there are 72 pens in the package, how many red pens are in the package?

Red pers 999

Blue pens 9999999

There are 18 red pens

3)You separate 42 bulbs of garlic into two groups: one for planting and one for cooking. You will plant 3 bulbs for every 4 bulbs that you will use for cooking. Each bulb has about 8 cloves. About how many cloves will you plant?

Planting [6]6]6] #2:7:6

Cooking [6]6]6] Each part = 6

18.8=144 You will plant about

144 clover

