

Name _____

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Jonas is making nachos and tacos for a family party. He uses $\frac{2}{5}$ bag of shredded cheese for the nachos and $\frac{1}{5}$ bag for the tacos. How much of the bag of shredded cheese does Jonas use in all? **Solve this problem any way you choose.**

You can reason.

What expression can you write to represent this problem? **Show your work in the space below!**



Lesson 11-3

Adding Fractions with Like Denominators

TEKS 4.3E Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations. Also, 4.3. Mathematical Process Standards 4.1A, 4.1C, 4.1D, 4.1G

Digital Resources at PearsonTexas.com



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Look Back!

Construct Arguments What do you notice about the denominators?

How Can You Add Fractions with Like Denominators?

The table shows the results of a fourth-grade Pets Club survey. What fraction of the club members chose a hamster or a dog as their favorite pet?

Favorite Pet	
	$\frac{5}{12}$
	$\frac{4}{12}$
	$\frac{2}{12}$
	$\frac{1}{12}$



Add the fractions for hamsters and dogs to find the result.

Decompose the fractions.

B Find $\frac{2}{12} + \frac{4}{12}$.

?	
$\frac{2}{12}$	$\frac{4}{12}$

$$\frac{2}{12} + \frac{4}{12} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$$

$$= \frac{1+1}{12} + \frac{1+1+1+1}{12}$$

So, $\frac{2}{12} + \frac{4}{12} = \frac{2+4}{12} = \frac{6}{12}$.

Use a rule.

C Add the numerators. Write the sum over the like denominator.

$$\frac{2}{12} + \frac{4}{12} = \frac{6}{12}$$

Write the sum in simplest form.

$$\frac{6 \div 6}{12 \div 6} = \frac{1}{2}$$

One half of the club members chose a hamster or a dog as their favorite pet.

Do You Understand?

Convince Me! Frank solved the problem above and found $\frac{2}{12} + \frac{4}{12} = \frac{6}{24} = \frac{1}{4}$.

What error did Frank make? Explain why his work is not correct.