

LESSON 22: Model Fractions as Division

Warm-Up

Directions: Solve the following problems.

1. $315 \div 7 =$ _____

2. $168 \div 2 =$ _____

3. $180 \div 5 =$ _____

4. $744 \div 6 =$ _____

5. $4,572 \div 3 =$ _____

6. What do these problems mean if $18 \div 3$ means “how many groups of 3 are in 18”?

$256 \div 4 =$

$736 \div 8 =$

$7,785 \div 9 =$

LESSON 22: Model Fractions as Division

Directions: Complete the following SOLVE problem with your teacher. You will only complete the S step.

Brandon’s scout troop is going on a camping trip. The 15 campers will be hiking and camping for 3 days. Each camper is responsible to bring a food item. Brandon volunteered to bring trail mix. His mom went to the store and purchased 12 pounds of trail mix. If she divides the trail mix into 15 equal bags, how much trail mix will each camper have?

S Underline the question.
This problem is asking me to find _____
_____.

Directions: Complete this page with your teacher and partner.

Fraction	Model	Division Problem
1. $\frac{1}{2}$		
2. $\frac{1}{3}$		
3. $\frac{1}{4}$		
4. $\frac{1}{5}$		
5. $\frac{1}{6}$		
6. $\frac{1}{8}$		

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Directions: Complete this page with your teacher and partner.

Problem	Wording	Model	Fraction
1. $4 \div 3 =$			
2. $7 \div 5 =$			
3. $12 \div 9 =$			
4. $5 \div 2 =$			
5. $7 \div 3 =$			
6. $8 \div 5 =$			

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Directions: Complete this page with your teacher and partner.

Problem	Meaning	Fraction	Between what 2 whole numbers?
1. $12 \div 8 =$			
2. $9 \div 5 =$			
3. $11 \div 4 =$			
4. $6 \div 22 =$			
5. $3 \div 7 =$			
6. $2 \div 8 =$			

Conclusion: When the numerator is smaller than the denominator, the quotient will always be between ____ and ____.

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Directions: Complete the following SOLVE problem with your teacher.

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S Underline the question.

This problem is asking me to find _____
_____.

O Identify the facts.

Eliminate the unnecessary facts.

List the necessary facts.

L Choose an operation or operations.

Write in words what your plan of action will be.

V Estimate your answer.

Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.

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Directions: Complete the following SOLVE problem with your teacher.

Julie is having a party for her birthday. She has invited 7 friends from school. Julie is planning on playing games and watching a movie. Julie's mom is ordering 3 pizzas. If the 8 girls share the pizza equally, how much pizza will each girl have?

S Underline the question.

This problem is asking me to find _____.

O Identify the facts.

Eliminate the unnecessary facts.

List the necessary facts.

L Choose an operation or operations.

Write in words what your plan of action will be.

V Estimate your answer.

Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.

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Directions: Complete the following SOLVE problem with your partner.

Mrs. Jacobs is in charge of costumes for the school play. Her husband is working on the scenery for the play. She is making 8 costumes that are the same color. The art teacher told Mrs. Jacobs that if she bought 28 yards of material, it would be enough for the 8 costumes. How much material is needed for each costume?

S Underline the question.

This problem is asking me to find _____
_____.

O Identify the facts.

Eliminate the unnecessary facts.

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L Choose an operation or operations.

Write in words what your plan of action will be.

V Estimate your answer.

Carry out your plan.

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Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.

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Directions: Complete the following SOLVE problem with your partner.

Jason and his brother have a mowing business. Jason's uncle hired them to mow a large field he wants to use to race go-carts. The field has a total of 13 acres. If the boys split the mowing job equally, how many acres will each boy mow?

S Underline the question.

This problem is asking me to find _____
_____.

O Identify the facts.

Eliminate the unnecessary facts.

List the necessary facts.

L Choose an operation or operations.

Write in words what your plan of action will be.

V Estimate your answer.

Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

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LESSON 22: Model Fractions as Division

Homework

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Name _____ **Date** _____

Tanya has homework on Thursday evening. She has 55 minutes to complete all of her homework. She would like to finish on time so that she can watch her favorite television show. She has homework for math, history, and language arts. If she spends an equal amount of time on all the subjects, how many minutes will she spend on each subject?

S Underline the question.

This problem is asking me to find _____
_____.

O Identify the facts.

Eliminate the unnecessary facts.

List the necessary facts.

L Choose an operation or operations.

Write in words what your plan of action will be.

V Estimate your answer.

Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.