

How much paint can we buy?
Performance Task

Learning Targets: Students will be able to solve a multistep word problem using various math strategies.

Understandings/Prior Knowledge:

Essential Question(s):

What combinations of paint and spray paint could Uncle Estria purchase with \$1,000.00.

Standards Addressed:

Grade 3

CCSS.MATH.CONTENT.3.NBT.A.2

Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

CCSS.MATH.CONTENT.3.OA.A.3

Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.¹

Grade 4

CCSS.MATH.CONTENT.4.NBT.B.4

Fluently add and subtract multi-digit whole numbers using the standard algorithm.

CCSS.MATH.CONTENT.4.OA.A.2

Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.¹

Grade 5

CCSS.MATH.CONTENT.5.NBT.B.7

Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

CCSS.MATH.CONTENT.5.NF.A.2

Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and

Key Understanding

MELE MURALS

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| | number sense of fractions to estimate mentally and assess the reasonableness of answers. <i>For example, recognize an incorrect result $2/5 + 1/2 = 3/7$, by observing that $3/7 < 1/2$.</i> |
| | HA Connection: |
| | Responsibility Excellence |

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| Set-up | Classroom Set-Up: Normal classroom set-up |
| | Materials and Equipment Needed: Student sheets |

| Product | RUBRIC: | | | | | | | | |
|---------|---|--|--|----|--|----|--|----|--|
| | <table border="1"> <thead> <tr> <th colspan="2">Rubric</th> </tr> </thead> <tbody> <tr> <td>MP</td> <td>Student was able to solve the word problem accurately with no errors, using the correct algorithm.</td> </tr> <tr> <td>DP</td> <td>Student was able to solve the word problem accurately with errors either in the answer or the set up of the algorithm.</td> </tr> <tr> <td>WB</td> <td>Student was unable to solve the word problem accurately.</td> </tr> </tbody> </table> | Rubric | | MP | Student was able to solve the word problem accurately with no errors, using the correct algorithm. | DP | Student was able to solve the word problem accurately with errors either in the answer or the set up of the algorithm. | WB | Student was unable to solve the word problem accurately. |
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| WB | Student was unable to solve the word problem accurately. | | | | | | | | |

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| Lesson Flow 45-60 min | Mins | Procedure: |
| | Op enin g: 5-10 min. | Go over the problem together and discuss what has been conducted with the mural. Explain that when Uncle Estria does a Mele Mural they have to work together to raise the money for the supplies. Instruct students that they are going to have to use a problem solving strategy to see if he will have enough money. |

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| 10-40 min Acti vity | Give students partner collaboration or independent work time to solve the multi-step word problem. |
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| Reflection | How will you check for understanding during instruction and how will you know if learning targets are met? Component 1F → 3D |
| | Teacher can circulate and meet with individual students or partner groups individually to scaffold the problem solving. |

MELE MURALS

Name _____

Date _____

Part A. Uncle Estria must always make sure that he has enough money when he prepares and buys supplies for his murals. He has \$1,000.00 to buy all the supplies for a mural. He needs to get 3 ladders that cost \$55.00 each. He also needs to get 10 buckets that are \$3.00 each. He must get 25 paintbrushes that are \$1.00 each, and 25 rollers that are \$5.00 each. After all of those supplies, figure out how much money he will have left over to buy paint.



MELE MURALS

Part B. Each can of house paint costs \$20.00 and each spray paint can costs \$9.00. With the money Uncle Estria has left over how many cans of house paint and how many cans of spray paint can he buy? (Hint: Use a problem solving strategy, make a table).



MELE MURALS