

Use the problem solving method we discussed in class to show all of your steps.

1. Amira is painting a rectangular banner $2\frac{1}{4}$ yards wide on a wall in the cafeteria. The banner will have a blue background. Amira has enough blue paint to cover $1\frac{1}{2}$ square yards of wall.



A. Find the height of the banner if Amira uses all of the blue paint.

B. The school colors are blue and yellow, so Amira wants to add yellow rectangles on the left and right sides of the blue rectangle. The yellow rectangles will each be $\frac{3}{4}$ yard wide and the same height as the blue rectangle. What will be the total area of the two yellow rectangles?

C. What are the dimensions of the banner plus yellow rectangles? What is the total area?

2. Naomi has earned \$54 mowing lawns the past two days. She worked $2\frac{1}{2}$ hours yesterday and $4\frac{1}{4}$ hours today. If Naomi is paid the same amount for every hour she works, how much does she earn per hour to mow lawns?

3. Eva wants to make two pieces of pottery. She needs $\frac{3}{5}$ pound of clay for one piece and $\frac{7}{10}$ pound of clay for the other piece. She has three bags of clay that weigh $\frac{4}{5}$ pound each. How many bags of clay will Eva need to make both pieces of pottery? How many pounds of clay will she have left over?

4. An art teacher has $1\frac{1}{2}$ pounds of red clay and $\frac{3}{4}$ pound of yellow clay. The teacher mixes the red and yellow clay together. Each student in the class needs $\frac{1}{8}$ pound of the clay mixture to finish the assigned art project for the class. How many students can get enough clay to finish the project?

5. Mark wants to paint a mural. He has $1\frac{1}{3}$ gallons of yellow paint, $1\frac{1}{4}$ gallons of green paint, and $\frac{7}{8}$ gallon of blue paint. Mark plans to use $\frac{3}{4}$ gallon of each paint color. How many gallons of paint will he have left after painting the mural?

6. Dorothy types 120 words per minute. How many words does Dorothy type in 1.75 minutes?

7. Apples are on sale for \$1.20 a pound. Logan bought $\frac{3}{4}$ of a pound. How much money did he spend on apples?

8. Luis made some trail mix. He mixed $4\frac{2}{3}$ cups of popcorn, $1\frac{1}{4}$ cups of peanuts, $1\frac{1}{3}$ cups of raisins, and $\frac{3}{4}$ cup of sunflower seeds. He gave 5 of his friends an equal amount of trail mix each. How much did each friend get?