

Math Problems for Grades 3-8 Adapted from NAEP

Based on problems from the National Assessment of Educational Progress 2007 and 2009 assessment of mathematics. For complete NAEP information and additional problems, go to <http://nces.ed.gov/nationsreportcard/>.

Select the problem for your grade. Then use the Math Scaffold to solve it.

3rd Grade

Michelle has a container with 3 quarts of juice. She pours 1 cup of juice for each person. At most, how many people can she serve? (1 quart = 4 cups)

4th Grade

There are 6 cubes of the same size in a jar. 2 cubes are yellow. 3 cubes are red. 1 cube is blue. Chuck is going to pick one cube without looking. Which color is he most likely to pick? What is the probability of this color being picked?

5th Grade

Mark's room is 12 feet wide and 15 feet long. Mark wants to cover the floor with carpet. How many square feet of carpet does he need? Answer: _____ square feet

The carpet costs \$2.60 per square foot. How much will the carpet cost?

Answer: \$ _____

6th Grade

Five classes are going on a bus trip and each class has 21 students. If each bus holds only 40 students, how many buses are needed for the trip?

7th Grade

The manager of a company has to order new engines for its delivery trucks after the trucks have been driven 150,000 miles. One of the delivery trucks currently has 119,866 miles on it. This truck has the same delivery route each week and is driven an average of 40,000 miles each year. At this rate, the manager should expect this truck to reach 150,000 miles in approximately how many months?

8th Grade

How many square tiles, 5 inches on a side, does it take to cover a rectangular area that is 50 inches wide and 100 inches long?

MATH SCAFFOLD**GRADES 3-4**

CCSS Math Practice Standard 1. Make sense of problems and persevere in solving them.

1. What are you going to figure out?	
2. How will you solve the problem?	
3. What information will you use?	

4. Solve it here. If you need more space use the back of the page.

5. What is your answer?	
6. How did you get it? Tell what you did.	
7. Tell why you solved it <u>this way.</u>	

This guide was developed through funding from the Institute for Education Sciences, US Department of Education

1. What are you going to figure out?	
2. How will you solve the problem?	
3. What information will you use?	
4. Estimate the answer.	

5. Solve it here. If you need more space use the back of the page.

6. What is your answer?	
7. How did you get it? Tell what you did.	
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