LESSON MAKER PRO

Math Method Match

Choose an efficient way to solve each problem.

GRADE 6 · TEKS 6.1.C

6.1.C "select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;"

NAME _____ DATE _____

PART 1: PRACTICE

Choose a method that matches the numbers. Use mental math for friendly numbers, estimation to check whether an answer makes sense, and paper and pencil when several steps or tricky decimals or fractions are involved.

WORKED EXAMPLE

Find 37 x 11 using an efficient method.

1. Break 11 into 10 + 1.
2. Multiply 37 x 10 = 370.
3. Add 370 + 37 = 407.

Answer: 407

PRACTICE 6 problems

1 Choose mental math, estimation, or paper and pencil. Then find 398 + 207.

ANSWER _____

2 Estimate 47 x 19 by rounding each factor to the nearest ten.

ANSWER _____

3 Choose a useful method. Then find 684 / 18.

ANSWER _____

4 Choose a useful method. Then find 2/3 + 5/6.

ANSWER _____

5 Choose a useful method. Then find 2.75 x 16.

ANSWER _____

6 Use number sense to find 125% of 48.

ANSWER _____

APPLY IT Show your work

1 A digital game costs $27.50. Sales tax is 8%. What is the total cost of the game? Name a useful technique for solving the problem.

WORK SPACE

ANSWER _____

2 Maya has $186.75 to spend on art supplies. Each sketchbook costs $24.90. What is the greatest number of sketchbooks she can buy, and how much money will she have left? Name a useful technique.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics team needs 17.5 meters of wire. Wire is sold only in pieces that are 3/4 meter long. How many pieces must the team buy? Explain why you must round your answer the way you do.

WORK SPACE AND ANSWER

ANSWER KEY

Math Method Match

GRADE 6 · TEKS 6.1.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Choose mental math, estimation, or paper and pencil. Then find 398 + 207.	**Mental math; 605**
2	Estimate 47 x 19 by rounding each factor to the nearest ten.	**1,000**
3	Choose a useful method. Then find 684 / 18.	**Paper and pencil; 38**
4	Choose a useful method. Then find 2/3 + 5/6.	**Paper and pencil; 1 1/2**
5	Choose a useful method. Then find 2.75 x 16.	**Paper and pencil; 44**
6	Use number sense to find 125% of 48.	**Mental math; 60**

PART 2 · APPLY IT

1. **Paper-and-pencil decimal multiplication; $29.70** Find 8% of $27.50, which is $2.20. Add $2.20 to $27.50.
2. **Paper-and-pencil division; 7 sketchbooks and $12.45 left** Seven sketchbooks cost $174.30, while eight cost $199.20, which is too much. Subtract $174.30 from $186.75.

CHALLENGE

24 pieces. 17.5 / (3/4) = 23 1/3, so 23 pieces are not enough and the team must round up.

Accept any reasonable named method when the calculation is correct. For the fraction problem, accept 1 1/2 or 3/2.