Name:_____

School:_____

Grade:_____

Practice Problem (No points)

Practice Problem

If I have 2 different shirts and 2 different pants, how many outfits of 1 shirt and 1 pant can I make?

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Name:_____

School:_____

Grade:_____

Practice Problem (No points)

Practice Problem

If I have 2 different shirts and 2 different pants, how many outfits of 1 shirt and 1 pant can I make?

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Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 4

Gina can type 5 pages in an hour. Her printer can print 20 pages per hour. Gina needs to type and print 60 pages. After typing and printing, she needs to tape them into pairs, taking 2 minutes per pair. How long, in hours, would it take for her type, print, and tape these 60 pages?

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 9

In how many ways can Caroline divide 4 different cookies (chocolate chip, oatmeal, peanut butter, sugar, butter) among 2 different jars (red and blue) if each jar can have any whole number of cookies and the order in which the jars are placed does not matter?

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 3

I roll two dice. What is the probability that the dice show the same number? Express your answer as a simplified fraction.

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Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 8

What is the value of C if the following statements are true?

$$A + A + A = 36$$

$$A + B + B = 32$$

$$A + B - C = 17$$

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Name:

School:

Grade:

11 points 5 points 0 points

Problem 2

Grace put $1030 in her bank account. To buy a new laptop, she spent $650. Then her mother gave her $25 for her birthday. Lastly, she spent $210 on a flight to Disneyworld. Now, how much money does Grace have left in her bank account?

Name:

School:

Grade:

11 points 5 points 0 points

Problem 7

What is the positive difference between the median and mean (average) of the set {10, 25, 8, 5}?

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 10

I have a window in the shape of a square and a semicircle whose diameter (flat side) fits perfectly on one side of the square. The length of a side of the square is 8. What is the numerical difference between the perimeter of my window and the area of my window? Express you answer in terms of π.

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 5

In a group of 50 kids, everyone takes at least one class. 32 kids take Algebra. 12 kids take Algebra and Geometry. How many kids take at least Geometry?

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 1

The sum of 243 and 123 is represented by A. The positive difference of 243 and 123 is represented by B. What is A + B?

Name:_____

School:_____

Grade:_____

11 points 5 points 0 points

Problem 6

The volume of a red balloon increases by 25 cubic inches every minute. The volume of a blue balloon increases by 10 cubic inches every minute. At 1:00 PM today, both balloons have zero volume. At 2:30 PM today, by how many cubic inches will the red balloon be bigger than the blue balloon?