

# Fourteenth Annual PI Competition

## 4th Grade Team Test

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"To show you how well I understand fractions,  
I only did half of my homework."

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### 4th Grade Team Problem 1

Let  $G$  = the number of sides of a triangle

Let  $U$  = the number of sides in a heptagon

Let  $B$  = the number of corners in a pentagon

Let  $R$  = The number of sides in a pentagon

What is  $G + R + U + B$

### **4th Grade Team Problem 2**

Michael Jordan plays 4 basketball games.

In the first game, he scores 6 3-pointers and 9 2-pointers.

In the second game, he scores 11 3-pointers and 7 2-pointers.

In the third game, he scores 5 3-pointers and 12 2-pointers.

In the 4th game, he scores 8 3-pointers and 14 2-pointers.

How many points did Michael Jordan score in total?

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### **4th Grade Team Problem 3**

Let A = the sum of all the digits in 867

Let B = the sum of all the digits in 2,222

Let C = the sum of all the digits in 65,342

Let D = the sum of all the digits in 583,019

List A, B, C, and D in DECREASING order

#### **4th Grade Team Problem 4**

Let  $G$  = the number of lines of symmetry in a square

Let  $F$  = the number of lines of symmetry in a pentagon

Let  $R$  = the number of lines of symmetry in an equilateral triangle

Let  $O$  = the number of lines of symmetry in a rectangle

What is  $F - R + O + G$

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#### **4th Grade Team Problem 5**

Let  $T$  = greatest common factor of 8 and 12

Let  $G$  = greatest common factor of 14 and 28

Let  $A$  = greatest common factor of 42 and 22

Let  $O$  = greatest common factor of 12 and 18

What is  $G + O + A - T$

### **4th Grade Team Problem 6**

Let  $A = 25$  dimes

Let  $B = 25$  nickels

Let  $C = 25$  pennies

Let  $D = 25$  quarters

What is  $A + B + C + D$  in dollars?

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### **4th Grade Team Problem 7**

Let  $O = 5$  times as many as 7

Let  $L = 6$  times as many as 3

Let  $V = 12$  times as many as 13

Let  $E = 3$  times as many as 27

What is  $L + O + V + E$

#### 4th Grade Team Problem 8

A rectangle has a length of 8 inches and a width of 3 inches.

Let  $B$  = the area of the rectangle

Let  $D$  = the perimeter of the rectangle

Let  $I$  = the area of the rectangle if the length and width are increased by 1 inch

Let  $R$  = the perimeter of the rectangle if the length and width are increased by 1 inch

What is  $B + I + R + D$

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#### 4th Grade Team Problem 9

A bicycle can go 5 miles per hour.

Let  $K$  = the distance traveled after 2 hours

Let  $I$  = the distance traveled after 3 hours

Let  $E$  = the distance traveled after 4 hours

Let  $B$  = the distance traveled after 5 hours

What is  $B + I - K + E$

#### 4th Grade Team Problem 10

Megan, Kaylee, and Dat love to eat pie. Megan ate 5 pies, Kaylee ate 12 pies, and Dat ate 16 pies.

Let  $S = 5$  divided by the number of pies Megan ate

Let  $P = 8$  divided by the number of pies Dat ate

Let  $I = 5$  multiplied by the number of pies Kaylee ate

Let  $E =$  the total number of pies they ate

What is  $P + I + E + S$

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