# Belmont Runyon Community School



Courage

Summer Math Packet
Students Entering **Grade 7** 

Name \_\_\_\_

Name:

Score:

Teacher:

Date:

60 x 92 55 x 82 59 x 57 68 x 82

18 x 93 76 x 22 25 x 56 70 x 80

79 x 77 83 x 45 23 x 16

18 x 55

77 x 90 73 x 92 19 x 71 78 x 46



Name:

Score:

Teacher:

Date:

6)1542

3)1038

2)628

9)6885

3)1944

2)1962

5)3070

8)6528

4)3360

7)5565

7)847

7)1225



# **Expressions and Equations**

Gym				
This problem gives you the chance to:  • select relevant data and operations  • soive a practical money problem				
Carlo wants to jo	om a gym.			
The gym offers	Pay as you go Pay only \$6 each time you work out	Regular deal Pay \$50 a month and \$2 each time you work out		
	Pay just \$100 unlimited us	ne price! per month for e of our great litles		

1. Carlo thinks he will go to the gym about 20 times a month.
Calculate how much each of these options would cost Carlo for one month.

Pay as you go	\$
Regular deal	\$
All-in-one price	\$
Which of these ontions is the least expensive for C	Carlo?

Explain how you figured it out.		3
	and the same of th	20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	TO A STATE OF THE	and a state of the
3. It costs \$300 to join the new Superfit time you work out. Carlo thinks he will us your.	얼마가 들었다. 그는 사람이 그리를 하는 것이 가셨습니다. 그렇게 얼굴하는 것이 되었다면 했다고 있는데 되었다.	
time you work out. Carlo thinks he will u	se the gym about 20 tin	

## **Ratios and Proportions**

## Everyone Loves a Sale



## Problem #1:

Al's Awesome Autos advertised a special sale on cars - Dealer cost plus 5%!!

Jack and Margaret bought a luxury sedan for \$23,727.90. What was the dealer's cost?

## Problem #2:

You and some friends went out to T.G.I. Fridays for dinner. You ordered a root beer, sweet potato fries and cheese quesadillas. The total bill came to \$21.86. Your dad has told you many times that it's important to leave a good tip; about 20%. You have \$26.00 in your wallet. Can you leave a 20% tip? How much would the total be if you left a 20% tip? Can you cover the cost?

#### Problem 3:

#### Directions:

- 1. Solve the following problem.
- 2. Show all steps you take to find your solution.

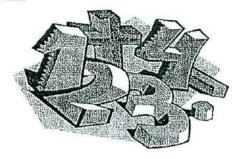
The ratio of the number of boys to the number of girls at school is 4:5.

- 1. What fraction of the students are boys?
- 2. If there are 120 boys, how many students are there altogether?

## The Number System

## Directions:

Complete the two problems below.



## Problem 1:

Using exactly four 4's and any operations [+, -, x, +, ()] write an expression to equal each of the following:

#### Problem 2:

Find three different ways to fill in operations in the boxes below to make the equations true.

$$6 \square 1 \square 2 \square 2 = 5$$

2=5 \*Hint: Operations include: +, -, x, ÷,()

$$6 \square 1 \square 2 \square 2 = 5$$

$$6 \square 1 \square 2 \square 2 = 5$$

YUMMM!

# Geometry

## What's the Point?

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1.34	rect	nne

## Part I

- 1. Use the following coordinates to draw polygons on the coordinate plane below.
  - A. (2, -3)
  - B. (-2, -1)
  - C. (-3, 4)
  - D. (1, 3)

Name the figure:

- A. (-5, -3)
- B. (-4, -6)
- C. (4,-4)

Name the figure;

