

Belmont Runyon Community School



Summer Math Packet

Students Entering **Grade 7**

Name _____

Name : _____

Score : _____

Teacher : _____

Date : _____

$$\begin{array}{r} 60 \\ \times 92 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ \times 77 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 45 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 90 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 92 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 71 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 46 \\ \hline \end{array}$$



Name : _____

Score : _____

Teacher : _____

Date : _____

$$6 \overline{)1542}$$

$$3 \overline{)1038}$$

$$2 \overline{)628}$$

$$9 \overline{)6885}$$

$$3 \overline{)1944}$$

$$2 \overline{)1962}$$

$$5 \overline{)3070}$$

$$8 \overline{)6528}$$

$$4 \overline{)3360}$$

$$7 \overline{)5565}$$

$$7 \overline{)847}$$

$$7 \overline{)1225}$$



Expressions and Equations

Gym

This problem gives you the chance to:

- select relevant data and operations
- solve a practical money problem

Carlo wants to join a gym.

The gym offers three membership options.

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

All-in-one price!
Pay just \$100 per month for
unlimited use of our great
facilities

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 options is the least expensive for Carlo? _____

2. How many visits each month would make the cost of the **Regular deal** and the **All-in-one** price the same?

Explain how you figured it out.

3. It costs \$300 to join the new Superfit Gym. You then pay \$15 each month and \$2 each time you work out. Carlo thinks he will use the gym about 20 times each month for a year.

Calculate the cost of using the Superfit Gym for one year.

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym?

Show your work.

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 $[+, -, \times, \div, ()]$ write an expression to equal each of the following:

$1 = \underline{\hspace{2cm}}$

$4 = \underline{\hspace{2cm}}$

$2 = \underline{\hspace{2cm}}$

$5 = \underline{\hspace{2cm}}$

$3 = \underline{\hspace{2cm}}$

$\text{*Example: } 16 = 4 \times 4 \times 4 \div 4$

Problem 2:

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

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

*Hint: Operations include: $+, -, \times, \div, ()$

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

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

YUMMM!

Geometry

What's the Point?

Directions:

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: _____

