

MATH SUMMER PACKET INSTRUCTIONS

Attached you will find a packet of exciting math problems for your enjoyment over the summer. The purpose of the summer packet is to review the topics you have already mastered in math and to make sure that you are prepared for the class you are about to enter.

This packet is **due the first day of school**. It is mandatory that you complete this packet before the school year starts so that you can be sure that you are ready. You will have an opportunity to show your proficiency when the math packet is tested. This will happen within the first month of school.

This packet is to help you maximize your previous math courses and to make sure that everyone is starting off on an even playing field on the first day of school. If you feel that you need additional help on one or two topics, you may want to try math websites such as: www.mathforum.org or www.askjeeves.com. Or you may email Ms. Miller at Darlene.miller@inglesideisd.org

Enjoy your summer and don't forget about the packet. August will be here before you know it! If you lose your packet, you will be able to access the packets on-line at the school website

See you in August!

VOCABULARY

You should be familiar with all of the following terms:

Order of Operations
Improper Fraction
Simplest Form
Solving an Equation
Variable Terms
Evaluate an Expression
Integers
Equation
Whole Numbers
Inequality
Sum
Percent
Difference
Area
Quotient
Perimeter
Product
Coordinate System
Factors
x-axis
Greatest Common Factor
y-axis
Least Common Denominator
Ordered Pair
Least Common Multiple
Origin
Mixed Number

In all math classes, you are expected to show your work at all times. The following are examples of acceptable work and unacceptable work.

Acceptable Work ☺	Unacceptable Work ☹
1) $-2(3-6)+4$ $-2(-3)+4$ $6+4$ 10	1) $-2(3-6)+4$ 10
2) $6+4(-5+1)^2$ $6+4(-4)^2$ $6+4(16)$ $6+64$ 70	2) $6+4(-5^4+1)^2$ 16 4 64 70
3) $\frac{1}{2} + \frac{2}{5}$ $\frac{10}{20} + \frac{8}{20}$ $\frac{18}{20} = \frac{9}{10}$	3) $\frac{1}{2} \frac{10}{20} + \frac{2}{5} \frac{8}{20} = \frac{18}{20} = \frac{9}{10}$

ALL PROBLEMS SHOULD BE COMPLETED WITHOUT A CALCULATOR.

Section 1 – Use =, or >, or < to compare.

1). 0 _____ -3

2). -4 _____ -5

3). $\frac{10}{5}$ _____ 2

4). $-\frac{1}{3}$ _____ $-0.\bar{3}$

5). -11.99 _____ -11.98

6). $12\frac{1}{2}$ _____ 12.5

Section 2 – Write in order from least to greatest.

1). $-2, 2.25, -2.75$

2). $-4, 0, -1$

3). $\sqrt{36}, \sqrt{25}, \sqrt{49}$

4). $\frac{4}{9}, \frac{5}{9}, \frac{1}{9}$

5). $\frac{1}{3}, \frac{1}{6}, \frac{1}{9}$

Section 3 – Write these fractions in simplest form.

1). $\frac{4}{12}$

2). $\frac{3}{27}$

3). $\frac{6}{24}$

4). $\frac{11}{55}$

5). $\frac{8}{20}$

6). $\frac{7}{14}$

7). $\frac{90}{100}$

Section 4 – Write each fraction as a mixed number.

1). $\frac{17}{5}$

2). $\frac{35}{6}$

3). $\frac{19}{12}$

Section 5 – Write each fraction as an improper fraction.

1). $2\frac{1}{3}$

2). $5\frac{1}{4}$

3). $6\frac{2}{3}$

Section 6 – Add or subtract. Write each answer in simplest form.

1). $\frac{1}{7} + \frac{3}{7}$

2). $\frac{2}{3} + \frac{1}{3}$

3). $\frac{9}{5} - \frac{6}{5}$

4). $\frac{9}{10} - \frac{3}{10}$

5). $\frac{3}{4} + \frac{2}{3}$

6). $\frac{5}{8} - \frac{1}{4}$

7). $\frac{1}{3} - \frac{1}{2}$

8). $\frac{4}{5} - \frac{7}{12}$

9). $-\frac{3}{10} + \frac{1}{7}$

Section 7 – Find each sum or difference.

1). $-3 - 6$

2). $8 - 2$

3). $-10 + 9$

4). $-4 - 20$

5). $-90 - 10$

6). $57 - 60$

7). $-98 + 56$

8). $-25 - 10$

9). $-8 - (-10)$

10). $4 - (-20)$

11). $-12 - (-8)$

12). $-18 - (-8)$

13). $-11 - 13 - 1(-12)$

14). $35 - 15 - 16$

15). $-18 - (-45) - 46$

Continue with Section 7 Find each product or quotient:

16). $-3 \cdot -4$

17). $-16 \cdot 2$

18). $20 \cdot -2$

19). $-6 \cdot -9$

20). $(-9)(-3)$

21). $(-11)(6)$

22). $(9)(-15)$

23). $(2)(-3)(5)$

24). $12 \div -2$

25). $-15 \div -5$

26). $-36 \div 6$

27). $75 \div 3$

28). $\frac{16}{-2}$

29). $\frac{-81}{9}$

30). $\frac{-18}{-3}$

31). $\frac{75}{3}$

Section 8 – Multiply or Divide. Write answer in simplest form.

1). $\frac{2}{5} \cdot \frac{3}{4}$

2). $\frac{1}{2} \cdot \frac{1}{2}$

3). $\frac{7}{8} \cdot \frac{1}{5}$

4). $3\frac{1}{5} \cdot 1\frac{7}{8}$

5). $\frac{3}{5} \div \frac{1}{2}$

6). $\frac{4}{5} \div \frac{9}{10}$

7). $7\frac{2}{3} \div \frac{2}{9}$

8). $\frac{10}{9} \div \frac{2}{27}$

Section 9 – Simplify each expression.

1). $30 \div 2(3)$

2). $4 + 6(7)$

3). $4 \cdot 3^2 + 2$

4). $(2+4) \div (2+1)$

5). $2 + 9 - 4 + 3$

6). $8 \div 2 \cdot 4$

7). $8(4-2)$

8). $4 + 8 \div 2 + 6 \cdot 3$

9). $4 - (6 \div 3)$

10). $\frac{3(6+2)}{3+1}$

11). $7 + 3(-2+4)^2$

Section 10 – Write each number as percent.

1). .25

2). $\frac{4}{5}$

3). $\frac{1}{2}$

4). $\frac{2}{3}$

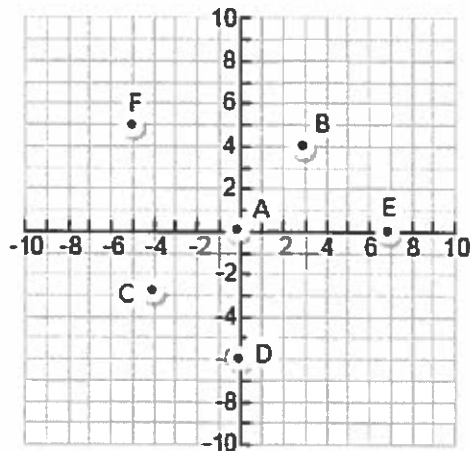
5). .478

6). $\frac{3}{4}$

7). 0.08

8). $\frac{17}{100}$

Section 11 – Please give the coordinates of the labeled coordinates.



A = (,)

B = (,)

C = (,)

D = (,)

E = (,)

F = (,)

Section 12 – Please plot the following points on the graph provided.

A = (1, 1)

B = (-2, 4)

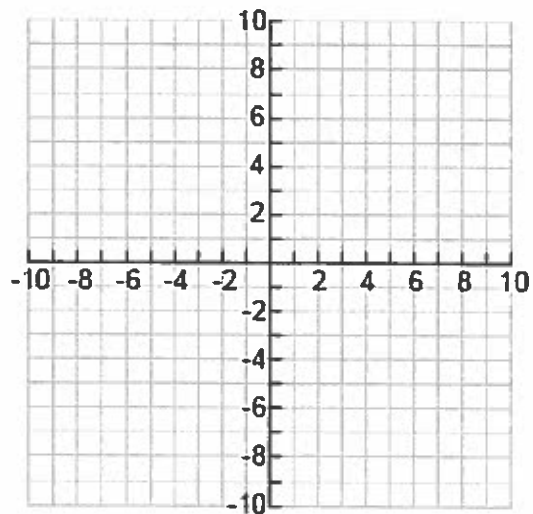
C = (-3, -3)

D = (0, 6)

E = (-4, 0)

F = (8, 8)

G = (6, -5)



Section 13 – Evaluate each expression for $a = -2$ and $b = -3$

1). $a - b$

2). $a \cdot b$

3). $a(b)$

4). $b \cdot a$

5). ab

6). $b - a$

7). $a \div b$

8). $\frac{a}{b}$