

Name A Key

Date \_\_\_\_\_

Expressions Review Packet

1) Write a dialogue for each expression.

(from our menu! 😊)

a)  $3f + 2h + 5m$

Three french fries, 2 hamburgers and 5  
Medium drinks, please.

b)  $2(c + 3f + 1) - f$

$$= 2c + 6f + 2 - f = \boxed{2c + 5f + 2}$$

2 orders of a cheeseburger, three  
fries, and a dollar tip) oh wait = take  
off a fry!

c)  $3(2f + 5h + 2m + 3x + 4)$

$$= \boxed{6f + 15h + 6m + 9x + 12}$$

Three orders of 2 fries, 5 hamburgers,  
2 medium drinks, 3 x-tra large drinks, and  
4 dollar tip.

2) Evaluating Expressions

Input the values and simplify using Order of Operations (PEMDAS/GEMS)

$m$	$m + 5$
3	8
5	10
32	37

$3 + 5$

$5 + 5$

$32 + 5$

$d$	$d \div 2$
4	2
14	7
22	11

$4 \div 2$

$14 \div 2$

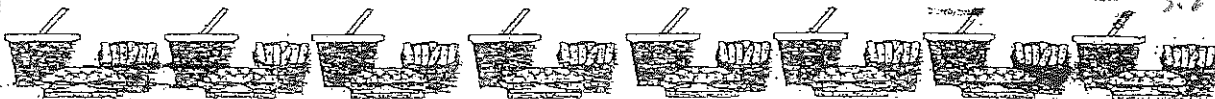
$22 \div 2$

$n$	$4n + 3.2$
4	19.2
7	31.2
10	43.2

$16 + 3.2$

$28 + 3.2$

$40 + 3.2$



3) Verbal Phrases

Writing Expressions:

- a) 3 more than a number  $n+3$       b) The sum of 6 and a number  $6+n$   
c) Half of a number  $n \div 2$       d) Jane is twice as old as Ed  $2e$   
OR  $\frac{n}{2}$       OR  $J=2e$   
e) 31 less than a number  $n-31$       f) Read 9 pages a day for  $d$  days  $9d$

4) Combine Like Terms

Only combine terms that are 'alike'. Use Highlighters and/or colored pencils.

Only use an exponent if the variables are being multiplied

- a)  $4x$  +  $3x$  +  $7$  +  $2$       b)  $7x$  +  $2y$  +  $3x$  +  $2$  +  $y$       c)  $6m$  +  $12$  -  $2m$  -  $1$   
 $7x+9$        $10x+3y+2$        $4m+11$
- d)  $4x^2$  +  $3x$  +  $7x^2$  +  $2x$       f)  $4g$  -  $2g$  +  $7h$  +  $9h$   
 $11x^2+5x$        $2g+16h$

5) Distribute

SHARE- Multiply EVERY term in the parentheses

a)  $5(x + 3)$

$5x + 15$

b)  $9(7 - 3j)$

$63 - 27j$

c)  $4(2x + 3y - 6)$

$8x + 12y - 24$

6) Factor

Factor out the GCF from each term. Distribute to check.

a)  $5x + 10 \div 5$

$5(x + 2)$

b)  $12m - 24 \div 12$

$12(m - 2)$

c)  $2 - 6a \div 2$

$2(1 - 3a)$

d)  $4m + 12n - 8 \div 4$

$4(m + 3n - 2)$

f)  $42g - 56 \div 7$

$7(6g - 8)$

7) Distribute and Combine Like Terms.

a)  $3(4d - 7) + 7d$

$12d - 21 + 7d$

$19d - 21$

b)  $5(3x + 6y - 4) - 8y$

$15x + 30y - 20 - 8y$

$15x + 22y - 20$

c)  $2(6m + 5) - 4m + 2$

$12m + 10 - 4m + 2$

$8m + 12$