

Name \_\_\_\_\_

Date \_\_\_\_\_

## Expressions Review Packet

1) Write a dialogue for each expression.

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

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

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

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2) Evaluating Expressions

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

$m$	$m + 5$
3	
5	
32	

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

$n$	$4n + 3.2$
4	
7	
10	



### 3) Verbal Phrases

#### Writing Expressions:

- a) 3 more than a number \_\_\_\_\_      b) The sum of 6 and a number \_\_\_\_\_
- c) Half of a number \_\_\_\_\_      d) Jane is twice as old as Ed \_\_\_\_\_
- e) 31 less than a number \_\_\_\_\_      f) Read 9 pages a day for  $d$  days \_\_\_\_\_

### 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)  $6m + 12 - 2m - 1$
- d)  $4x^2 + 3x + 7x^2 + 2x$       e)  $4b^3 + 3b + 7b^2 + 2b^2$       f)  $4g - 2g + 7h + 9h$



**5) Distribute**

SHARE- Multiply EVERY term in the parentheses

a)  $5(x + 3)$

b)  $9(7 - 3j)$

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

**6) Factor**

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

a)  $5x + 10$

b)  $12m - 24$

c)  $2 - 6a$

d)  $4m + 12n - 8$

e)  $18x^2 + 27x - 64$

f)  $42g - 56$

**7) Distribute and Combine Like Terms.**

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

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

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