

## Day 8 – Interpreting Expressions Notes

a. Hot dogs sell for \$1.80 apiece and hamburgers sell for \$3.90 apiece. This scenario can be represented by the expression  $1.80x + 3.90y$ . Identify what the following parts of the expression represent.

1.80	cost for 1 hot dog
3.90	cost for 1 hamburger
x	number of hot dogs
y	number of hamburgers
$1.80x$	total cost for $x$ hot dogs
$3.90y$	total cost for $y$ hamburgers
$1.80x + 3.90y$	total cost for both hot dogs & hamburgers

b. Noah and his friends rent a sailboat for \$15 per hour plus a basic fee of \$50. This scenario can be represented by the expression  $15h + 50$ .

15	cost to rent boat for 1 hour
h	number of hours
$15h$	total cost after $h$ hours
50	basic fee
$15h + 50$	total cost to rent sailboat

c. A teacher has \$600 to spend on supplies. They plan to spend \$40 per week on supplies. This scenario can be represented by the expression  $600 - 40w$ .

600	total amount to spend
-40	amount spent for 1 week
w	number of weeks
$-40w$	total amount spent after $w$ weeks
$600 - 40w$	total amount remaining