

Day 8 – Interpreting Expressions Practice

a. Alex goes to a soccer game and can buy candy for \$1.50 and soda for \$2.25. This scenario can be modeled by the expression $1.50x + 2.25y$. Identify what the following parts of the expression represent.

1.50	cost for 1 candy bar
2.25	cost for 1 soda
x	number of candy bars
y	number of soda
1.50x	total cost for x amount of candy bars
2.25y	total cost for y amount of sodas
$1.50x + 2.25y$	total cost for sodas and candy bars

b. Haylie loves to watch movies. She joined a movie club where she pays \$5 to join the club and each movie she watches is \$2. The expression that models her scenario is $5 + 2d$. Identify what the following parts of the expression represent.

2	cost for 1 movie
d	number of movies
2d	total cost spent for d amount of movies
5	flat fee to join club
$5 + 2d$	total cost for joining and watching movies

c. Oleg is on a strict budget for grocery shopping. He has set aside \$600 and has budgeted that he can spend \$75 per week on groceries. The expression that models his scenario is $600 - 75w$. Identify what the following parts of the expression represent.

600	total amount Oleg can spend
-75	amount spent for 1 week
w	number of weeks
-75w	total amount spent after w weeks
$600 - 75w$	amount remaining

d. Kylie is going shopping and finds that sweaters cost her \$25 and jeans cost her \$30. She has a coupon for 20% off her total purchase. The expression that models her scenario is $.80(25s + 30j)$. Identify what the following parts of the expression represent.

25	cost for 1 sweater
s	number of sweaters
25s	total amount spent on s sweaters
30	cost for 1 pair of jeans
j	number of jeans
30j	total amount spent on j jeans
.80	percent she pays for the sweaters and jeans
$.80(25s + 30j)$	total amount spent on sweaters and jeans