Name	Date	Period
	Unit Three Expressions	

MCC6.EE.2c

I can use the Order of Operations to evaluate expressions. DOK-2

1) $(15+1) \div 2 \cdot 3 + 10$ 2) $16 \div 4 \cdot 3 - 6 + 4$

- 3) $6^3 \div (2 \ge 6) + 64$ 4) $167 + (13 4)^2$
- 5) Explain the Order of Operations and how it is useful in solving mathematical and real world problems. DOK-4

I can evaluate expressions when given values for variables.

Evaluate each expression for the given values of the variable. DOK-2

- 6) 3n + 2 for n = 10 7) $2x^2 + 5$ for x = 3 8) 10q + 2r for q = 3, r = 5
- 9) The formula for finding the Surface Area of a cube is $A = 6s^2$, where *s* is the length of one side of the cube. What is the surface area of a cube with side length of:
 - a) $\frac{1}{4}$ inches?
 - b) 5.1 meters?
 - c) 50 feet?

10) The formula for finding the Volume of a cube is $V = s^3$, where *s* is equal to the length of one side of the cube. What is the volume of the cube with side length of:

- a) 15 inches?
- b) 2.5 meters?
- c) 25 feet?

MCC6.EE.2

Write an algebraic expression for each written expression. DOK-2

- 11) 12 less than h 12) the total of y and 17
- 13) one third of x 14) the quotient of 3 and x

15) DOK-3 School lunch at Yum Yum Middle School costs *x* dollars. Write an expression for the situations below. What is the cost of lunch for:

- a) 3days?
- b) 6 days?
- c) 15 days?

MCC6.EE.3 and MCC6.EE.4

Determine whether each of the following pairs of expressions are equivalent. Some of them may not be equivalent. Be sure to justify your conclusions. DOK-4

- 16) 4y + 8 and 4(y + 2)
- 17) 5x + y and y + 5x
- 18) 8x + 2 and 8(x + 2)
- 19) $9x^2 + 27$ and $9(x^2 + 3)$
- 20) $3y^2 + 6x^2$ and $3(y^2 + 2x^2)$