### A1 SOL Packet #1a

## Evaluate Expressions

What is the value of this expression when  $x = \frac{2}{3}$ ?

$$x^2 + 3x - 2$$

- A  $\frac{16}{3}$

2013

What is the value of  $\frac{3}{x+2}$  when x=4?

Your answer must be in the form of a fraction in simplest form.

What is the value of the expression 3(x+4)-2y, if x=5 and y=-3?

- F -7
- **G** 11
- H 21
- **J** 33

Directions: Type your answer in the box.

What is the value of this expression when a= 64 and b= 5 ?

$$-2\sqrt[3]{a}+b^2$$

2013

What is the value of  $\frac{6x-3y}{xy}$  when x=6 and  $y=^-4$  ?

- **A** -2
- **C** 2

What is the value of the expression  $\frac{1}{4}(x^2-y^3)$  when x=5 and y=1?

- **D** 31

# What is the value of the expression $\frac{x^y+z}{z}$ if x=4, y=2, and z=2?

- **A** 5
- **B** 9
- **C** 10
- **D** 16

### What is the value of

$$\frac{4x-5y}{2y}$$

if 
$$x = ^{-}6$$
 and  $y = 2$ ?

- A -26.5
- **B** -8.5
- C -3.5
- **D** -0.5

### What is the value of

if 
$$m = 7$$
,  $n = 18$  and  $r = 6$ ?

- **A** 3.5
- **B** 10.5
- C 21
- **D** 63

# If $\frac{1}{3}t-6=15$ , what is the value of t?

- A 21
- **B** 27
- C 53
- **D** 63

## What is the value of 3x + 4y if $x = \frac{1}{3}$ and $y = \frac{1}{2}$ ?

- F 17
- **G** 3
- H 2
- 1 1

#### What is the value of

$$\frac{4m+8}{4m+4}$$

#### when m = 4?

- A 0.5
- B 1.2
- c 1.7
- **D** 2.0

What is the value of a(3-b) if a=2 and b=5?

$$\mathbf{B} = \mathbf{0}$$

What is the value of  $3x^2 - y^2$  if x = -1 and y = 3?

What is the value of 3(2x + 5y) if x = 2 and y = -3?

What is the value of a(b-c) if a=2, b=-3 and c=-2?

What is the value of x(5 + y) if x = 4 and y = 2?

What is the value of  $2a^2b + 5ab - 4$  if a = -4 and b = 5?

$$G^{-144}$$

Date			

What is the value of  $\frac{a+b}{2b}$  if a = 10 and b = 15?

- $\mathbf{B} = \frac{5}{4}$
- C 5
- D 25