

Student Name: \_\_\_\_\_

Class Name: **Math Essentials Spring 2026  
MATH0044-3 In-Person**Number of Questions: **22**Instructor Name: **Foster, Glen****Question 1 of 22**Evaluate the expression when  $b = 6$  and  $y = -3$ .

$$3b - y$$

**Question 2 of 22**Evaluate the expression when  $c = -2$ .

$$c^2 - 8c + 7$$

**Question 3 of 22**Evaluate the expression when  $a = -2.6$  and  $b = -1.7$ .

$$7b - a$$

### Question 4 of 22

For each value of  $w$ , determine whether it is a solution to  $-19 = 6 - 5w$ .

$w$	Is it a solution?	
	Yes	No
2	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>
-9	<input type="radio"/>	<input type="radio"/>
-8	<input type="radio"/>	<input type="radio"/>

### Question 5 of 22

Simplify.

$$-4x^2 - 10x^2$$

### Question 6 of 22

Subtract.

$$\frac{c}{4} - \frac{5}{9}$$

Simplify your answer as much as possible.

### Question 7 of 22

Simplify.

$$-2(u+2) + 3(3u+4)$$

**Question 8 of 22**

Solve for  $x$ .

$$5 = 8 + x$$

**Question 9 of 22**

Solve for  $y$ .

$$14 = -\frac{7}{5}y$$

Simplify your answer as much as possible.

$$y = \underline{\hspace{2cm}}$$

**Question 10 of 22**

Solve for  $w$ .

$$-w + 15 = 158$$

**Question 11 of 22**

Solve for  $y$ .

$$5y - 3 = 22$$

Simplify your answer as much as possible.

$$y = \underline{\hspace{2cm}}$$

**Question 12 of 22**

Solve for  $v$ .

$$2(4v+9)=98$$

Simplify your answer as much as possible.

$$v = \boxed{\phantom{00}}$$

**Question 13 of 22**

Solve for  $x$ .

$$5 = \frac{3x+19}{2}$$

Simplify your answer as much as possible.

$$x = \boxed{\phantom{00}}$$

**Question 14 of 22**

Solve for  $y$ .

$$38 = -6y - 7y - 27$$

Simplify your answer as much as possible.

**Question 15 of 22**

Solve for  $y$ .

$$7y - 39 = 5(y - 7)$$

Simplify your answer as much as possible.

$$y =$$

**Question 16 of 22**

Solve for  $u$ .

$$\frac{7u}{10} - 2 = \frac{5u}{6}$$

Simplify your answer as much as possible.

**Question 17 of 22**

There are 84 students in a speech contest. Yesterday,  $\frac{1}{3}$  of them gave their speeches. Today,  $\frac{1}{4}$  of the remaining students gave their speeches. How many students still haven't given their speeches?

**Question 18 of 22**

Solve for  $x$ .

$$\frac{3}{5}x - \frac{4}{3} = -\frac{1}{2}$$

Simplify your answer as much as possible.

**Question 19 of 22**

Solve for  $v$ .

$$-\frac{2}{3}v - \frac{7}{3} = 2v - \frac{2}{5}$$

Simplify your answer as much as possible.

**Question 20 of 22**

Last week, Jose drove 299 miles. This week, he drove  $m$  miles. Using  $m$ , write an expression for the total number of miles he drove in the two weeks.

**Question 21 of 22**

Kaitlin is saving money to buy a game. So far she has saved \$12, which is one-half of the total cost of the game. How much does the game cost?

**Question 22 of 22**

Donna's penny bank is  $\frac{1}{3}$  full. After she adds 440 pennies, it is  $\frac{5}{6}$  full. How many pennies can Donna's bank hold?