

7th Math #2

Subject: Mathematics

State: Ohio

Student Name:		
Teacher Name:		
School Nama		

For parts (a)-(e), select 1).	et Yes or No to indicate whether each	of these expres	ssions is equivalent to $2(2x +$
(a)	4x + 2	○ Yes	○ No
(b)	2(1 + 2x)	O Yes	○ No
(c)	2(2x) + 1	○ Yes	○ No
(d)	2x + 1 + 2x + 1	○ Yes	○ No
(e)	x + x + x + x + 1 + 1	○ Yes	○ No

$$(-3m+5) + (m-11)$$

- (A) 4m 16
- (B) -4m 6
- (C) 2m 16
- (D) -2m 6

3 Which expression represents a simplified form of the algebraic expression shown below?

$$\frac{1}{2}(2x+4)+x$$

- (A) x + 2
- (B) 2x + 4
- (C) 2x + 2
- (D) 3x + 2

4 Stephanie wrote two rules on the board.

$$m = 0.56x - 0.25$$
$$n = 0.20x - 0.03$$

Find the sum of m and n.

(A)
$$0.76x - 0.28$$

(B)
$$0.76x - 0.22$$

(C)
$$0.31x - 0.17$$

(D)
$$0.36x - 0.22$$

5 Use the following equation to find the value of m and b.

$$2(4x - 0.7) = mx + b?$$

- (A) 4 and -0.7
- (B) 8 and -0.7
- (C) 8 and 1.4
- (D) 8 and -1.4

6 Simplify the expression below.

$$13y + x - 7y$$

7 Which expression represents a simplified form of the algebraic expression shown below?

$$\frac{1}{2}(2x+4)+x$$

- (A) x + 2
- (B) 2x + 4
- (C) 2x + 2
- (D) 3x + 2

Select each correct answer.

$$(A)\frac{3}{8}x + \frac{3}{8}y$$

(B)
$$\frac{3}{8}x + 1\frac{5}{8}y$$

(C)
$$\frac{5}{8}x - y - \frac{1}{4}x + y$$

(D)
$$\frac{5}{8}x - \frac{5}{8}y - \frac{1}{4}x + y$$

(E)
$$\frac{5}{8}x - \frac{1}{4}x + y - \frac{5}{8}y$$

9 Determine which expression is equivalent to $\frac{3}{4} - x(\frac{1}{2} - \frac{5}{8}) + (-\frac{3}{8}x)$.

$$(\mathsf{A}) - \frac{3}{4}x$$

- (B) $\frac{1}{2}x$
- $(\mathbf{C})\,\frac{1}{8}-\frac{7}{8}x$
- (D) $\frac{3}{4} \frac{1}{4}x$

10 Select the expression equivalent to (4x + 3) + (-2x + 4).

$$(A) -2x + 12$$

(B)
$$-8x + 12$$

(C)
$$6x + 7$$

(D)
$$2x + 7$$

Select **all** express ions that are equivalent to -3.75 + 2(-4x + 6.1) - 3.25x.

(A)
$$7x - 2x + 8.1$$

(B)
$$8.45 - 8x - 3.25x$$

(C)
$$-1.75 - 7.25x + 6.1$$

(D)
$$-11.25x + 12.2 - 3.75$$