Name $\qquad$
$\qquad$

## Algebra Concepts Screener - Winter

Questions 1-3: Add and subtract the integers.
1.

$$
(-7)+4
$$

$\qquad$
2.
-9-4
$\qquad$
3.

$$
5-(-7)
$$

$\qquad$

Please stop, put your pencil down and wait for the next directions.
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 4-6: Multiply and divide the integers.

| 4. | $-4 \times 7$ |  |
| :--- | :--- | :--- |
| 5. |  |  |
|  | $-4(-6)$ |  |
| 6. |  |  |

## Algebra Concepts Screener - Winter

(continued)

Questions 7-9: Write the ordered pair for the point.

$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 10-12: Find the equivalent expression.
10.

The product of $x$ and 6 , decreased by 2

- $6 x-2$
○ $6(x-2)$
- $2 x-6$
○ $x+6-2$

11. 

3 more than 5 times $x$
○ $3 x+5$
○ $5 x+3$
○ $5(x+3)$
○ $3(5+x)$
12.

4 times the quantity of $x$ minus 6
○ $6 x-4$
○ $6(x-4)$

- $4 x-6$
○ $4(x-6)$
$\qquad$


## Algebra Concepts Screener - Winter

(continued)

Questions 13-15: Evaluate the expression for the given value of $x$.
13. Evaluate $5 x+2$ for $x=3$.
$\qquad$
14. Evaluate $x^{2}+6$ for $x=4$.
$\qquad$
15. Evaluate $13-2 x$ for $x=3$.
$\qquad$
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 16-18: Find the equivalent expression.

17.

$$
4 x+3+2 x
$$

○ $6 x+3$
○ $9 x$
○ $9 x^{2}$
○ $4 x+5$
18.

$$
3(x+4)
$$

○ $3 x+4$
○ $3 x+12$
○ $\quad x^{3}+7$
○ $x+12$

STOP
Please stop, put your pencil down and wait for the next directions.
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 19-21: Solve the equation.
19.

$$
x+5=10
$$

$$
x=.
$$

$\qquad$
20.

$$
24=4 x
$$

$$
x=
$$

$\qquad$
21.

$$
\frac{1}{4} x=8
$$

$$
x=
$$

$\qquad$

## STOP

Please stop, put your pencil down and wait for the next directions.
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 22-24: Find the equivalent expression.
22.

$$
(2 x+3)+(x+5)
$$

○ $3 x+5$

- $3 x+8$
- $2 x+5$
- $2 x+8$

23. 

$$
(6 x+9)-(4 x+6)
$$

○ $10 x+15$

- $2 x+15$
- $10 x+3$
- $2 x+3$

24. 

$$
(10 x+2)-(8 x-4)
$$

- $2 x-2$
- $2 x+6$
- $18 x+6$
- $18 x-2$
$\qquad$


## Algebra Concepts Screener - Winter

(continued)

Questions 25-27: Find the equivalent expression.


Please stop, put your pencil down and wait for the next directions.
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 28-30: Find the equivalent expression.
28.

$$
5 x+30
$$

- $5(x+6)$
○ $5(x+30)$
- $35 x$
- $5 x+6$

29. 

$$
12 x-4
$$

$-4(3 x+1)$
$4(3 x-1)$

- $8 x$
○ $4(8 x-1)$

30. 

$$
6 x+15
$$

- $6(x+9)$

○ $3(3 x+12) \circ 21 x$
○ $3(2 x+5)$


Please stop, put your pencil down and wait for the next directions.
$\qquad$

## Algebra Concepts Screener - Winter

(continued)

Questions 31-33: Solve the equation.
31.

$$
14=2 x-6
$$

$x=$ $\qquad$
32.

$$
3(x+2)=15
$$

33. 

$$
\frac{1}{4} x+2=10
$$

$$
x=.
$$

$\qquad$

Please stop, put your pencil down and wait for the next directions.
$\qquad$

