



Algebra Concepts Screener - Fall

(continued)

Questions 13-15: Evaluate the expression for the given value of x .

13. Evaluate $4x + 3$ for $x = 2$.

Answer:

14. Evaluate $x^2 + 5$ for $x = 3$.

Answer:

15. Evaluate $20 - 3x$ for $x = 4$.

Answer:



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

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(continued)

Questions 16-18: Find the equivalent expression.

16.

$$x + x + x$$

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

17.

$$6x + 2 + 3x$$

- $6x + 5$
 $9x + 2$
 $11x^2$
 $11x$

18.

$$2(x + 3)$$

- $2x + 6$
 $x + 6$
 $x^2 + 6$
 $2x + 3$



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



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(continued)

Questions 19-21: Solve the equation.

19.

$$x + 4 = 12$$

$$x = 8$$

20.

$$12 = 3x$$

$$x = 4$$

21.

$$\frac{1}{3}x = 6$$

$$x = 18$$



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

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(continued)

Questions 22-24: Find the equivalent expression.

22.

$$(x + 2) + (4x + 5)$$

- $5x + 7$

 $4x + 5$

 $4x + 7$

 $5x + 5$

23.

$$(5x + 3) - (2x + 4)$$

- $3x + 7$

 $7x + 7$

 $3x - 1$

 $7x - 1$

24.

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

- $5x - 1$

 $3x + 1$

 $5x + 5$

 $3x + 5$



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



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(continued)

Questions 25-27: Find the equivalent expression.

25.

$$3(x + 2)$$

- $3x + 2$ $3x + 6$ $6x$ $x + 6$

26.

$$7(6x + 3)$$

- $42x + 21$ $42x + 3$ $63x$ $6x + 21$

27.

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

- $9x + 8$ $8x + 32$ $41x$ $9x + 32$



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



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(continued)

Questions 28-30: Find the equivalent expression.

28.

$$6x + 18$$

- $6(x + 3)$ $6(x + 18)$ $24x$ $6x + 3$

29.

$$20x - 5$$

- $-5(4x + 1)$ $5(4x - 1)$ $15x$ $5(15x - 1)$

30.

$$8x + 12$$

- $8(x + 4)$ $4(4x + 8)$ $20x$ $4(2x + 3)$



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



Algebra Concepts Screener - Fall

(continued)

Questions 31-33: Solve the equation.

31.

$$18 = 3x - 6$$

$$x = 8$$

32.

$$2(x + 3) = 14$$

$$x = 4$$

33.

$$\frac{1}{3}x + 2 = 8$$

$$x = 18$$



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