## **Keystone Review - Equations**

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

Date:

1. Solve for x: 0.6x + 1.5 = 3.9

2. Solve for x:  $\frac{2}{5}x - 7 = -3$ 

3. Solve for x: 5x - 2(x + 1) = 10.

4. Solve for x: 3(2-x) = 8(x-2)

5. The solution set of the equation  $x^2 - 4x = 0$  is

- A.  $\{0,4\}$
- B.  $\{4, -4\}$
- C. {-4}
- D. {4}

6. What is the solution set of the equation  $x^2 - 3x - 10 = 0$ ?

- A. (5, -2)
- B. (-5, -2)
- C. (5,2)
- D. (-5, 2)

7. Solve for *x*:  $\frac{x-1}{4} = \frac{1}{2}$ 

8. Solve for x:  $\frac{3}{x+2} = \frac{1}{x}$ ,  $x \neq 0$ ,  $x \neq -2$ 

9. Solve for a in terms of b and c: 3a + 4b = c

10. Solve for r in terms of C and  $\pi$ :  $C = 2\pi r$ 

11. If dx - 2 = h, then x is equal to

A. 
$$h + \frac{2}{d}$$
 B.  $\frac{h-2}{d}$  C.  $\frac{h+2}{d}$  D.  $\frac{h}{d} + 2$ 

12. Solve for *x*:  $\sqrt{3x-5} = 5$ 

13. Solve for x:  $3\sqrt{2x+5} - 15 = 0$ 

14. If  $4\sqrt{5} = \sqrt{n}$ , the value of *n* is

- A. 10
- B. 20
- C. 80
- D. 100

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1. Answer:	4
2. Answer:	10
3. Answer:	4
4. Answer:	2
5. Answer:	A
6. Answer:	A
7. Answer:	3
8. Answer:	1
9. Answer:	$\frac{c-4b}{3}$
10. Answer:	$\frac{C}{2\pi}$
11. Answer:	C
12. Answer:	10
13. Answer:	10
14. Answer:	C