## +x Check Solution: Answers

(1) Determine whether x = 0 is a solution to the equation 4(x + 2) = 20:

LHS = 
$$4(x + 2)$$
 RHS = 20  
=  $4 \times (0 + 2)$   
= 8

 $\therefore$  Since LHS  $\neq$  RHS, x = 0 is not a solution to the equation.

(2) Determine whether x = 3 is a solution to the equation 7(x + 4) = 49:

LHS = 
$$7(x + 4)$$
 RHS = 49  
=  $7 \times (3 + 4)$   
= 49

 $\therefore$  Since LHS = RHS, x = 3 is a solution to the equation.

(3) Determine whether x = 1 is a solution to the equation 5(x + 8) = 45:

LHS = 
$$5(x+8)$$
 RHS =  $45$   
=  $5 \times (1+8)$   
=  $45$ 

 $\therefore$  Since LHS = RHS, x = 1 is a solution to the equation.

(4) Determine whether x = 7 is a solution to the equation 9(x + 1) = 99:

LHS = 
$$9(x+1)$$
 RHS =  $99$   
=  $9 \times (7+1)$   
=  $72$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 7 is not a solution to the equation.

(5) Determine whether x = 7 is a solution to the equation 6(x + 2) = 72:

LHS = 
$$6(x + 2)$$
 RHS =  $72$   
=  $6 \times (7 + 2)$   
=  $54$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 7 is not a solution to the equation.

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(6) Determine whether x = 7 is a solution to the equation 3(x + 7) = 33:

LHS = 
$$3(x+7)$$
 RHS =  $33$   
=  $3 \times (7+7)$   
=  $42$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 7 is not a solution to the equation.

(7) Determine whether x = 5 is a solution to the equation 2(x + 3) = 20:

LHS = 
$$2(x + 3)$$
 RHS = 20  
=  $2 \times (5 + 3)$   
= 16

 $\therefore$  Since LHS  $\neq$  RHS, x = 5 is not a solution to the equation.

(8) Determine whether x = 4 is a solution to the equation 2(x + 6) = 20:

LHS = 
$$2(x + 6)$$
 RHS = 20  
=  $2 \times (4 + 6)$   
= 20

 $\therefore$  Since LHS = RHS, x = 4 is a solution to the equation.

(9) Determine whether x = 5 is a solution to the equation 2(x + 7) = 26:

LHS = 
$$2(x + 7)$$
 RHS = 26  
=  $2 \times (5 + 7)$   
= 24

 $\therefore$  Since LHS  $\neq$  RHS, x = 5 is not a solution to the equation.

(10) Determine whether x = 7 is a solution to the equation 3(x + 2) = 27:

LHS = 
$$3(x + 2)$$
 RHS = 27  
=  $3 \times (7 + 2)$   
= 27

 $\therefore$  Since LHS = RHS, x = 7 is a solution to the equation.

(11) Determine whether x = 8 is a solution to the equation 7(x+6) = 77:

LHS = 
$$7(x + 6)$$
 RHS = 77  
=  $7 \times (8 + 6)$   
=  $98$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 8 is not a solution to the equation.

(12) Determine whether x = 8 is a solution to the equation 6(x + 5) = 66:

LHS = 
$$6(x + 5)$$
 RHS =  $66$   
=  $6 \times (8 + 5)$   
=  $78$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 8 is not a solution to the equation.

(13) Determine whether x = 5 is a solution to the equation 2(x + 7) = 24:

LHS = 
$$2(x + 7)$$
 RHS = 24  
=  $2 \times (5 + 7)$   
= 24

 $\therefore$  Since LHS = RHS, x = 5 is a solution to the equation.

(14) Determine whether x = 1 is a solution to the equation 7(x + 3) = 28:

LHS = 
$$7(x + 3)$$
 RHS = 28  
=  $7 \times (1 + 3)$   
= 28

 $\therefore$  Since LHS = RHS, x = 1 is a solution to the equation.

(15) Determine whether x = 8 is a solution to the equation 4(x + 4) = 56:

LHS = 
$$4(x + 4)$$
 RHS =  $56$   
=  $4 \times (8 + 4)$   
=  $48$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 8 is not a solution to the equation.

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(16) Determine whether x = 3 is a solution to the equation 2(x + 1) = 8:

LHS = 
$$2(x + 1)$$
 RHS = 8  
=  $2 \times (3 + 1)$   
= 8

 $\therefore$  Since LHS = RHS, x = 3 is a solution to the equation.

(17) Determine whether x = 6 is a solution to the equation 8(x + 10) = 128:

LHS = 
$$8(x + 10)$$
 RHS = 128  
=  $8 \times (6 + 10)$   
= 128

 $\therefore$  Since LHS = RHS, x = 6 is a solution to the equation.

(18) Determine whether x = 6 is a solution to the equation 6(x + 3) = 54:

LHS = 
$$6(x + 3)$$
 RHS =  $54$   
=  $6 \times (6 + 3)$   
=  $54$ 

 $\therefore$  Since LHS = RHS, x = 6 is a solution to the equation.

(19) Determine whether x = 8 is a solution to the equation 10(x + 2) = 90:

LHS = 
$$10(x + 2)$$
 RHS =  $90$   
=  $10 \times (8 + 2)$   
=  $100$ 

 $\therefore$  Since LHS  $\neq$  RHS, x = 8 is not a solution to the equation.

(20) Determine whether x = 1 is a solution to the equation 2(x + 9) = 20:

LHS = 
$$2(x + 9)$$
 RHS = 20  
=  $2 \times (1 + 9)$   
= 20

 $\therefore$  Since LHS = RHS, x = 1 is a solution to the equation.