

Bellwork: Algebra

1. Write down your work for the week in your planner if you did not do so yesterday.
2. You need your composition book and a calculator.
3. Take out the work from yesterday and be ready to check it.
4. Answer the following question on a sheet of paper (you will not get a bellwork sheet this week)

$$2(3x - 1) + 2(4x + 5) = 8$$

$$6x - 2 + 8x + 10 = 8$$

$$14x + 8 = 8$$

$$\begin{array}{r} -8 \quad -8 \\ \hline \end{array}$$

$$14x = 0$$

$$x = 0$$

1. $2(x + 7) + x = 20$

$x = 2$

3. $3(m + 1) - 2m = 0$

$m = -3$

5. $-\frac{1}{2}(b + 2) + 3b = -1$

$b = 0$

7. $4 + 2(1 + x) = 12$

$x = 3$

9. $2(2x + 3) - 2 = 5$

$x = 1/4$

2. $2(x - 1) + 3x = 3$

$x = 1$

4. $z + 4(2z + 3) = 15$

$z = 1/3$

6. $4(n + 2) - 2n = 0$

$n = -4$

8. $-(x + 3) + \frac{3}{4}x + 5 = 0$

$x = 8$

10. $2(3x - 1) + 2(4x + 5) = 8$

$x = 0$

1) $x + 8(x + 2) = 52$

$x = 4$

2) $2y + 6(y + 3) = 34$

$y = 2$

3) $4y + 2(y - 2) = 8$

$y = 2$

4) $9y + 3(y - 6) = 30$

$y = 4$

5) $6(x + 2) - 4x = 30$

$x = 9$

6) $4(a + 3) - 2(a + 6) = 20$

$a = 10$

7) $6(x + 2) - 4x + 6 = 36$

$x = 9$

8) $-9(x + 3) + 4x = -2$

$x = -5$

$$9) -4(y + 3) - 2y = 24$$

$$**y = -6**$$

$$10) 4(a + 2) - 9 = 11$$

$$**a = 3**$$

$$11) -8(y + 2) - 16 = 16$$

$$**y = -6**$$

$$12) 5(a + 4) - 6a + 1 = 12$$

$$**a = 9**$$

$$13) x + 3x + 2x + 3(x + 1) = 30$$

$$**x = 3**$$

$$14) 2x + 4x + 6x - 2(x + 3) = 34$$

$$**x = 4**$$

Solve for x: $\frac{5(x+7)}{3} = 20$

Start with x	x
Added by 7	$x+7$
Multiplied by 5	$5(x+7)$
Divided by 3	$\frac{5(x+7)}{3}$
Equals 20	$\frac{5(x+7)}{3} = 20$

DO/UNDO Method for Solving Equations

FOLDED

Solve for x: $\frac{5(x+7)}{3} = 20$

$x = 5$

Subtract by 7 $12 - 7$
5

Divide by 5 $\frac{60}{5}$
12

Multiply by 3 $20(3)$
60

Start with 20
20

DO/UNDO Method for Solving Equations

UNFOLDED

$$2x - 1(x + 3) = 10$$

$$2x - 1x - 3 = 10 \quad \cdot \quad x = 13$$

$$x - 3 = 10$$

$$\frac{1}{2}(2x + 10) = 7$$

$$x + 5 = 7$$

$$x = 2$$