



The
Calverton
School

2026-2027 Summer Work

Algebra 1 Summer Packet

All work in this packet is to be completed without a calculator. I understand that you have access to one, and in many situations, it may make problems easier. However, these pages are designed to reinforce the core skills you will need for success in math this upcoming school year.

Relying on a calculator for this work will limit your practice with essential skills and may leave you underprepared for future topics. Please complete all problems using your mathematical reasoning and mental math skills.

If you have any questions, feel free to reach out to me via email at:

jmooney@calvertonschool.org

Enjoy your summer!

INTEGER ADDITION AND SUBTRACTION

1) $-7 - (-11)$

2) $5 - 13$

3) $-12 + 8$

4) $-9 - 6$

5) $14 + (-19)$

6) $-4 - (-10)$

7) $-15 + 7$

8) $8 - (-12)$

9) $-6 - 9$

$$10) 17 + (-25)$$

$$11) -11 - (-4)$$

$$12) 9 + (-16)$$

$$13) -3 - (-14)$$

$$14) 22 - 31$$

$$15) -18 + 5$$

$$16) 7 - (-9)$$

$$17) -20 - (-6)$$

$$18) 13 + (-17)$$

$$19) -8 - 15$$

$$20) 4 - (-21)$$

$$21) 12 - (-15)$$

$$22) -8 - 19$$

$$23) -31 - (-14)$$

$$24) 45 - 68$$

$$25) -22 - (-37)$$

INTEGER MULTIPLICATION & DIVISION

1) -3×4

2) 6×-5

3) -7×-2

4) $18 \div -3$

5) $-24 \div 6$

6) 9×-3

7) -8×7

8) $36 \div -4$

9) $-45 \div 5$

10) 5×-6

11) 12×-2

12) $-81 \div 9$

13) -4×-9

14) $56 \div -7$

15) $-63 \div 7$

16) 3×-11

17) -10×6

18) $72 \div -8$

19) -14×-3

20) $40 \div -5$

21) $25 \times (-8)$

22) $-9 \times (-13)$

23) $17 \times (-12)$

24) $-196 \div (-14)$

25) $312 \div (-24)$

SINGLE STEP EQUATIONS - ADD & SUBTRACT

1) $x + 7 = 15$

2) $x - 9 = 4$

3) $x + 12 = 20$

4) $x - 5 = 11$

5) $x + 3 = 18$

6) $x - 8 = 7$

7) $x + 6 = 14$

8) $x - 2 = 9$

9) $x + 10 = 25$

$$10) x - 11 = 3$$

$$11) x + 4 = 19$$

$$12) x - 6 = 13$$

$$13) x + 9 = 21$$

$$14) x - 7 = 10$$

$$15) x + 2 = 16$$

$$16) x - 3 = 8$$

$$17) x + 8 = 30$$

$$18) x - 4 = 12$$

$$19) x + 5 = 17$$

$$20) x - 10 = 6$$

$$21) -x + 6 = 14$$

$$22) x - 9 = -2$$

$$23) 5 = x + 7$$

$$24) -4 = x - 3$$

$$25) x - 11 = -6$$

SINGLE STEP EQUATIONS - MULTIPLY & DIVIDE

1) $3x = 21$

2) $5x = 40$

3) $\frac{x}{4} = 6$

4) $8x = 56$

5) $\frac{x}{3} = 5$

6) $7x = 63$

7) $\frac{x}{5} = 9$

8) $6x = 48$

9) $\frac{x}{2} = 11$

$$10) 9x = 81$$

$$11) \frac{x}{6} = 7$$

$$12) 4x = 32$$

$$13) \frac{x}{8} = 3$$

$$14) 10x = 70$$

$$15) \frac{x}{7} = 4$$

$$16) 12x = 96$$

$$17) \frac{x}{9} = 2$$

$$18) 14x = 84$$

$$19) \frac{x}{10} = 5$$

$$20) 16x = 64$$

$$21) 7x = -45$$

$$22) \frac{x}{6} = -5$$

$$23) 3x = 20$$

$$24) 9x = -28$$

$$25) \left(\frac{1}{3}\right)x = 7$$

TWO STEP EQUATIONS

1) $2x + 3 = 11$

2) $3x - 5 = 10$

3) $4x + 6 = 22$

4) $5x - 7 = 18$

5) $6x + 2 = 26$

6) $7x - 4 = 24$

7) $8x + 5 = 29$

8) $9x - 3 = 33$

9) $10x + 1 = 41$

$$10) 3x + 9 = 24$$

$$11) 4x - 8 = 20$$

$$12) 5x + 10 = 35$$

$$13) 6x - 12 = 30$$

$$14) 7x + 7 = 56$$

$$15) 8x - 16 = 48$$

$$16) 9x + 18 = 90$$

$$17) 2x + 10 = 30$$

$$18) 3x - 9 = 12$$

$$19) 4x + 4 = 28$$

$$20) 5x - 15 = 10$$

$$21) 3x + 5 = x - 7$$

$$22) 2(x + 4) = 18$$

$$23) 5x - 3 = 2x + 12$$

$$24) -2x + 6 = 14$$

$$25) 4(x - 2) + 3 = 15$$

Mixed Equation Solving

1) $2x + 5 = 13$

2) $3x - 4 = 14$

3) $4x + 1 = 17$

4) $5x - 6 = 19$

5) $6x + 3 = 27$

6) $2(x - 3) = 4$

7) $3(x + 2) = 15$

8) $4(x - 1) = 10$

9) $5(x + 3) = 20$

$$10) 2(x + 5) = 17$$

$$11) \frac{x}{3} + 2 = 7$$

$$12) \frac{x}{4} - 1 = 5$$

$$13) \frac{x}{5} + 3 = 9$$

$$14) \frac{x}{6} - 2 = 4$$

$$15) \frac{x}{8} + 1 = 6$$

$$16) \left(\frac{1}{2}\right)x + 4 = 9$$

$$17) \left(\frac{3}{4}\right)x - 2 = 4$$

$$18) \left(\frac{2}{3}\right)x + 1 = 5$$

$$19) \left(\frac{5}{2}\right)x - 3 = 7$$

$$20) \left(\frac{3}{5}\right)x + 2 = 8$$

$$21) 3x + 7 = 2x + 19$$

$$22) 5(x - 2) = 3x + 8$$

$$23) 4x - 6 = 2(x + 5)$$

$$24) 7x + 3 = 2x - 24$$

$$25) 3(x + 4) + 5 = 2x + 19$$