

Welcome Back to MYP Math 9!

	Assignment Effort Grade (Circle One)	Comments (What was interesting or challenging?)
Monday Date: <u>3/12</u> Topic: <u>4CD Distribution</u>	0 1 2	
Tuesday Date: <u>3/13</u> Topic: <u>9E Factoring Quadratics</u>	0 1 2	
Wednesday Date: <u>3/14</u> Topic: <u>18ABC Solving Quadratics</u>	0 1 2	
Thursday Date: _____ Topic: _____	0 1 2	
Friday Date: _____ Topic: _____	0 1 2	

②

$$(a-6)(7a+1)=0$$

$$\boxed{a=6}$$

$$\begin{array}{r} 7a+1=0 \\ -1 \quad -1 \\ \hline \end{array}$$

$$\frac{7a}{7} = \frac{-1}{7}$$

$$\boxed{a = -\frac{1}{7}}$$

(17)

$$56n^3 + 21$$

$$7(8n^3 + 3)$$

(18)

$$7x^2 - x$$

$$x(7x - 1)$$

$$7x^2 - x \quad \checkmark$$

$$\textcircled{15} \quad p^2 + 9p + 18 = 0$$

$$(p+3)(p+6) = 0$$

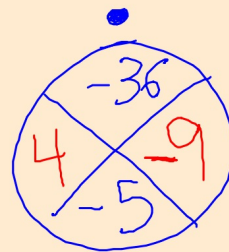
$$p = -3, -6$$

Warm-up: Factor and solve.

$$x^2 - 5x - 36 = 0$$

$$(x+4)(x-9) = 0$$

$$x = -4, 9$$



+

$$\left\{ \begin{array}{l} 4 + (-9) = -5 \\ 4(-9) = -36 \end{array} \right.$$

Times Table - 12x12

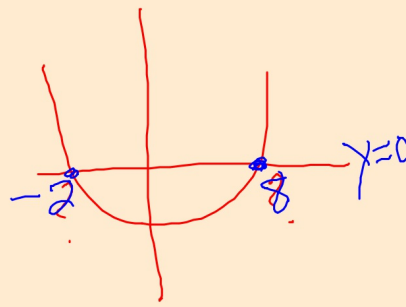
	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Warm-up: Factor and solve.

$$x^2 - 6x - 16 = 0$$

$$(x+2)(x-8) = 0$$

$$x = -2, 8$$



Times Table - 12x12

	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144



Class Plan:

1. Warm-up

2. Review Solving Quadratics

A

EQUATIONS OF THE FORM $x^2 = k$

B

THE NULL FACTOR LAW

C

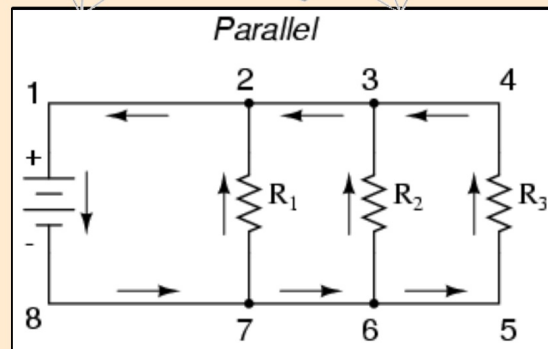
SOLUTION BY FACTORISATION

3. Review factoring

You need:

- Notebooks
- Pencils
- Growth Mindset

CIRCUIT



CIRCUIT

Do: Start circuit anywhere

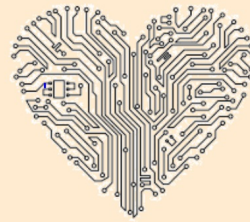
- Orange is Challenging

- Blue is More Challenging

2. Answers on top

Problems 2nd page

3. **Stuck?** ASK for help.



Exercises:

Solve each quadratic equation. (Solve by taking square roots)

1) $x^2 - 8 = 28$

2) $-2x^2 = -50$

Solve each quadratic equation. (Solve by factoring)

3) $(n - 1)(n - 8) = 0$

4) $(7a + 8)(3a - 2) = 0$

Exercises:

Factor, then solve.

5) $k^2 - 4k - 21 = 0$

6) $m^2 - 11m + 30 = 0$

7) $n^2 + 8n = 0$

8) $v^2 - 13v + 40 = 0$

Exercise Solutions:

1) $\{6, -6\}$

2) $\{5, -5\}$

3) $\{1, 8\}$

4) $\left\{-\frac{8}{7}, \frac{2}{3}\right\}$

5) $\{-3, 7\}$

6) $\{6, 5\}$

7) $\{-8, 0\}$

8) $\{8, 5\}$