Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the name of the phenomenon where hundreds of thousands of starlings fly in swooping, intricately coordinated patterns through the sky?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...	Solution Bank
$6x + 6 = 54$	**204.** $\{2\}$ [Q]
$2x + 4 = 14$	**193.** $\{6\}$ [T]
$3x - 5 = 16$	**204.** $\{10\}$ [R]
$5x - 10 = 20$	**412.** $\{-5\}$ [X]
$4x + 2 = 18$	**412.** $\{5\}$ [M]
$\frac{x}{4} + 5 = 8$	**527.** $\{8\}$ [O]
$\frac{x}{3} - 1 = 2$	**782.** $\{9\}$ [I]
$\frac{x}{2} + 3 = 8$	**366.** $\{12\}$ [N]
	839. $\{7\}$ [U]
	651. $\{4\}$ [A]
	782. $\{3\}$ [Z]

412	839	204	412	839	204	651	193	782	527	366

Beginner

Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the name of the phenomenon where hundreds of thousands of starlings fly in swooping, intricately coordinated patterns through the sky?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...

$6x + 6 = 54$
527. $\{8\}$ **(O)**

$2x + 4 = 14$
412. $\{5\}$ **(M)**

$3x - 5 = 16$
839. $\{7\}$ **(U)**

$5x - 10 = 2($
193. $\{6\}$ **(T)**

$4x + 2 = 18$
651. $\{4\}$ **(A)**

$\frac{x}{4} + 5 = 8$
366. $\{12\}$ **(N)**

$\frac{x}{3} - 1 = 2$
782. $\{9\}$ **(I)**

$\frac{x}{2} + 3 = 8$
204. $\{10\}$ **(R)**

Solution Bank

204. $\{2\}$ **[Q]**

193. $\{6\}$ **[T]**

204. $\{10\}$ **[R]**

412. $\{-5\}$ **[X]**

412. $\{5\}$ **[M]**

527. $\{8\}$ **[O]**

782. $\{9\}$ **[I]**

366. $\{12\}$ **[N]**

839. $\{7\}$ **[U]**

651. $\{4\}$ **[A]**

782. $\{3\}$ **[Z]**

MURMURATION

412	839	204	412	839	204	651	193	782	527	366

Beginner

Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the term for the rare natural event where bioluminescent phytoplankton glow bright blue when disturbed by crashing ocean waves?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...	Solution Bank
$-4x - 9 = 15$	**554.** $\{-4\}$ [E]
$10 - \frac{x}{5} = 12$	**673.** $\{-3\}$ [L]
$\frac{x}{-2} - 4 = 6$	**673.** $\{3\}$ [W]
$\frac{x}{3} + 8 = 4$	**409.** $\{-6\}$ [K]
$8 - 2x = 22$	**918.** $\{12\}$ [J]
$-3x + 7 = -11$	**761.** $\{-10\}$ [A]
$5x + 12 = -3$	**232.** $\{-7\}$ [Y]
$-6x + 5 = 29$	**918.** $\{-12\}$ [S]
	891. $\{6\}$ [M]
	145. $\{-20\}$ [I]
	891. $\{-6\}$ [P]

___	___	___	___	___	___	___	___	___
891	**145**	**673**	**409**	**232**	**918**	**554**	**761**	**918**

Intermediate

Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the term for the rare natural event where bioluminescent phytoplankton glow bright blue when disturbed by crashing ocean waves?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...

$-4x - 9 = 15$

409. $\{-6\}$ **(K)**

$10 - \frac{x}{5} = 12$

761. $\{-10\}$ **(A)**

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

145. $\{-20\}$ **(I)**

$\frac{x}{3} + 8 = 4$

918. $\{-12\}$ **(S)**

$8 - 2x = 22$

232. $\{-7\}$ **(Y)**

$-3x + 7 = -11$

891. $\{6\}$ **(M)**

$5x + 12 = -3$

673. $\{-3\}$ **(L)**

$-6x + 5 = 29$

554. $\{-4\}$ **(E)**

Solution Bank

554. $\{-4\}$ [E]

673. $\{-3\}$ [L]

673. $\{3\}$ [W]

409. $\{-6\}$ [K]

918. $\{12\}$ [J]

761. $\{-10\}$ [A]

232. $\{-7\}$ [Y]

918. $\{-12\}$ [S]

891. $\{6\}$ [M]

145. $\{-20\}$ [I]

891. $\{-6\}$ [P]

MILKY SEAS

___	___	___	___	___	___	___	___	___
891	145	673	409	232	918	554	761	918

Intermediate

Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the scientific term for the explosive, loud cracking sound and force made by a pistol shrimp closing its claw to stun prey?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...

$\frac{4}{7}x + 1 = -3$

$0.5x - 4.5 = 2.5$

$-\frac{x}{6} + \frac{1}{2} = \frac{5}{2}$

$12 - \frac{4}{5}x = -8$

$\frac{5}{2}x - 3 = 12$

$7 - \frac{2}{5}x = 11$

$-1.2x + 3 = -0.6$

$-\frac{3}{4}x + 5 = -4$

$\frac{3}{8}x + 2 = -7$

$-\frac{5}{3}x - 6 = 9$

$\frac{2}{3}x - 4 = 6$

Solution Bank

903. $\{3\}$ [N]

649. $\{6\}$ [V]

314. $\{15\}$ [C]

877. $\{-20\}$ [D]

182. $\{-9\}$ [H]

752. $\{-10\}$ [U]

295. $\{-12\}$ [T]

438. $\{-24\}$ [B]

820. $\{-7\}$ [E]

511. $\{14\}$ [O]

182. $\{12\}$ [A]

314. $\{-15\}$ [F]

877. $\{25\}$ [I]

166. $\{-9\}$ [L]

___	___	___	___	___	___	___	___	___	___
314	**182**	**649**	**877**	**295**	**182**	**295**	**877**	**511**	**903**

___	___	___	___	___	___
438	**752**	**438**	**438**	**166**	**820**

Challenge

Name: _____ Date: _____

Algebra 1: Two-Step Equations

What is the scientific term for the explosive, loud cracking sound and force made by a pistol shrimp closing its claw to stun prey?

Solve each equation. Match your answer to find the letter in the blanks.

Equations: Solve...

$\frac{4}{7}x + 1 = -3$
820. $\{-7\}$ (E)

$0.5x - 4.5 = 2.5$
511. $\{14\}$ (O)

$-\frac{x}{6} + \frac{1}{2} = \frac{5}{2}$
295. $\{-12\}$ (T)

$12 - \frac{4}{5}x = -8$
877. $\{25\}$ (I)

$\frac{5}{2}x - 3 = 12$
649. $\{6\}$ (V)

$7 - \frac{2}{5}x = 11$
752. $\{-10\}$ (U)

$-1.2x + 3 = -0.6$
903. $\{3\}$ (N)

$-\frac{3}{4}x + 5 = -4$
182. $\{12\}$ (A)

$\frac{3}{8}x + 2 = -7$
438. $\{-24\}$ (B)

$-\frac{5}{3}x - 6 = 9$
166. $\{-9\}$ (L)

$\frac{2}{3}x - 4 = 6$
314. $\{15\}$ (C)

Solution Bank

903. $\{3\}$ [N]
649. $\{6\}$ [V]
314. $\{15\}$ [C]
877. $\{-20\}$ [D]
182. $\{-9\}$ [H]
752. $\{-10\}$ [U]
295. $\{-12\}$ [T]
438. $\{-24\}$ [B]
820. $\{-7\}$ [E]
511. $\{14\}$ [O]
182. $\{12\}$ [A]
314. $\{-15\}$ [F]
877. $\{25\}$ [I]
166. $\{-9\}$ [L]

CAVITATION BUBBLE

___	___	___	___	___	___	___	___	___	___
314	182	649	877	295	182	295	877	511	903

___	___	___	___	___	___
438	752	438	438	166	820

Challenge