Solve the following

1) $\dfrac{4x-9}{3} = 3(x+2)$

$3 \cdot$

$4x - 9 = 3x + 6$

$-3x \qquad -3x$

$x - 9 = 6$

$+9 \quad +9$

$\boxed{x = 15}$

2) $-\dfrac{1}{3}(9x - 45) = 14 - x$

$-3x + 15 = 14 - x$

$+x \qquad\qquad +x$

$-2x + 15 = 14$

$-15 \quad -15$

$\dfrac{-2x}{-2} = \dfrac{-1}{-2}$

$\boxed{x = \dfrac{1}{2}}$

Date _____ Class _____ Name _____

Directions: Write the equation. Then, solve for the missing number. SHOW ALL WORK! Next, match each answer with a color and problem number.

1. Half of a number plus twelve is 46. What is the number?	2. 16 less than a number equals -19. What is the number?
3. The sum of a number and -9 is -36. What is the number?	4. The product of a number and -5 is -115. What is the number?
5. 19 more than a number equals 45. What is the number?	6. The difference of **3** times a number and **18** is **39**. What is the number?
7. 6 less than the product of a number and 3 is -18. . What is the number?	8. $\frac{3}{4}$ of a number minus -16 equals 28. What is the number?
9. The sum of the quotient of a number and 3 and 8 is 16. What is the number?	10. A fourth of a number added to -45 is -11. What is the number?.

Answer	24	-3	-4	68	-27	19	16	23	136	26
Color	Orange	Green	Dark Blue	Purple	Yellow	Brown	Red	Light Blue	Black	Pink
Question #										

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Date _____ Class _____ Name _____

Winter Snowman Coloring Activity: Writing and Solving Equations

Directions: Write the equation. Then, solve for the missing number. SHOW ALL WORK! Next, match each answer with a color and problem number. Finally, color by question number.

Answer	24	−3	−4	68	−27	19	16	23	136	26
Color	Orange	Green	Dark Blue	Purple	Yellow	Brown	Red	Light Blue	Black	Pink
Question #										