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## 8<sup>th</sup> Grade Linear equations Worksheet

Q1) Find the value of the variable 'x' for the following linear equations:

a)  $x + 2 = 4$       b)  $x + 14 = -18$       c)  $x - 35 = 50$       d)  $x - 7 = -14$

Q2) Find the value of the unknown variable for the following linear equations:

a)  $2x + 3 = 4x$       b)  $3x + 1 = 5$       c)  $12x + 7 = 12x + 6$

Q3) Solve the given equations and find the value of the unknown variable.

a)  $\frac{x}{3} = \frac{1}{3}$       b)  $\frac{x}{4} = \frac{2}{16}$       c)  $\frac{x}{4} = \frac{2}{3} - \frac{7}{11}$

Q4) Solve for the unknown variable:

a)  $\frac{3x+1}{x+7} = \frac{2}{17}$       b)  $\frac{7(x-6) + 42 + 3x + 10}{7 + 3(x+1) + 7x} = \frac{3}{4}$

Q5) Solve for x:

$\frac{7x+3}{2x+1} + 2 = 2x$       b)  $\frac{3x+2}{5} + 2x = 2$

Q6) If  $\frac{3x-2}{3} + 2x + 3 = \frac{x}{3}$ , then find the value of  $6x + 7$ .

Q7) Solve for the value of z:

$(z + 2)^2 + (3z - 3)^2 - 5z(2z - 3) = 0$

Q8) Solve for the unknown variable:

$2(2x - 4) + 8 + 15x = 19x$

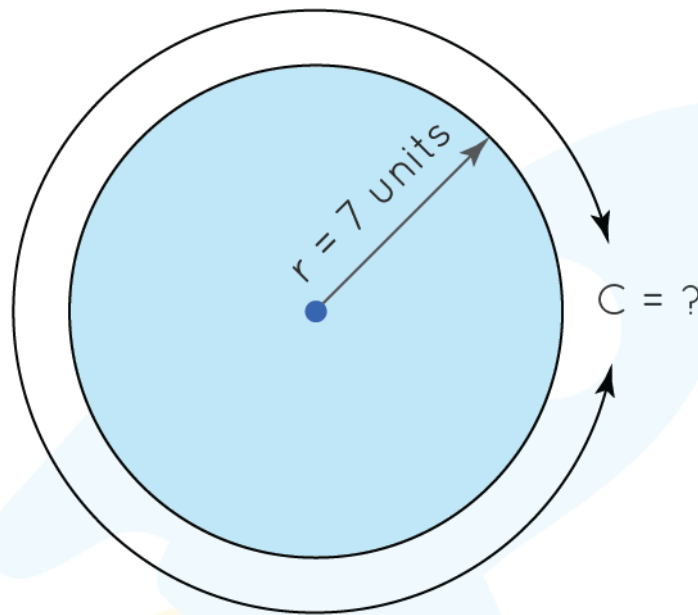
Q9) Solve for q:  $0.01q + 0.3 = 0.1(0.3 + q)$

Q10) Given the following equation:  $3x + 2 - 5 = x(m+1) - 5$ . For what value of m, x will have no solutions.

Q11) Find the height of the parallelogram whose area is 36 units<sup>2</sup> and base length is 4 units.

Q12) If the perimeter of an equilateral triangle is 12 units. Find the length of the side of the triangle.

Q13) Find the circumference of the disk, if its radius is 7 units. (Use  $\pi = \frac{22}{7}$ )



Q14) A parallelogram has a perimeter of 24 units. If one of its sides has a length of 4 units, then find the length of the other side.

Q15) Sum of three consecutive numbers is 36. Find the value of these numbers.

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## ANSWERS

1(a) $x = 2$	1(b) $x = -32$	1(c) $x = 85$	1(d) $x = -7$
2(a) $x = \frac{3}{2}$	2(b) $x = \frac{4}{3}$	2(c) No solution	3(a) $x = 1$
3(b) $x = \frac{1}{2}$	3(c) $x = \frac{4}{33}$	4(a) $x = \frac{-3}{39}$	4(b) No solution
5(a) $x = -\frac{5}{9}$	5(b) $x = \frac{-8}{7}$	6) $x = \frac{-7}{6}$ and $6x + 7 = 0$	7) $x = -13$
8) Infinite Solutions	9) $q = 3$	10) $m = 2$	11) $h = 9$ units
12) 4 units	13) 308 units	14) 8 units	15) 11, 12, 13

## FUN FACT

1. A significant amount of credit goes to William Rowan Hamilton for developing the concept of linear equations.
2. The linear equation was invented in the year 1843 by a mathematician from Ireland.

