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8th Grade Linear equations Worksheet

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

a) $x + 10 = 8$ b) $x + 4 = -8$ c) $x - 5 = 10$ d) $x - 2 = -4$

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

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

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

a) $\frac{x}{3} = 5$ b) $\frac{x}{4} = \frac{5}{7}$

Q4) Solve for the unknown variable:

a) $\frac{3x+1}{x} = 2$ b) $\frac{7x+4}{5x+2} = 2$

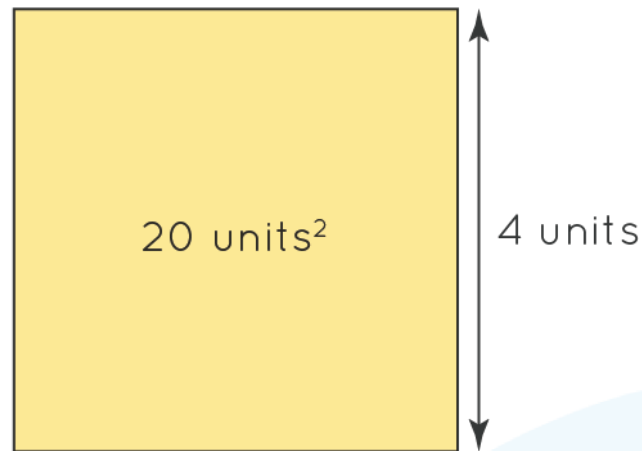
Q5) Solve for x:

a) $\frac{3x+2}{x+3} - 5 = 2$ b) $\frac{3x+2}{5} - 2x = 2$

Q6) If $\frac{x-2}{10} + x = \frac{x}{3}$, then find the value of $23x + 4$.

Q7) Solve the following linear equation: $\frac{5x-2}{3} + 1\frac{1}{4} = 2$

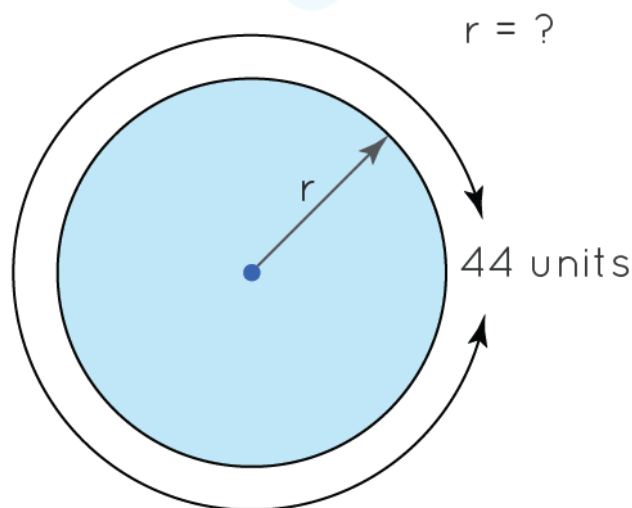
Q8) Find the length of a rectangle whose area is 20 units and breadth is 4 units.



Q9) If the perimeter of a square is 16 units. Find the length of the side of the square.

Q10) The length and the breadth of a rectangle are in the ratio 4:3. If the perimeter of the rectangle is 14 units, find the rectangle's length and breadth.

Q11) Find the radius of the disk, if its circumference is 44 units. (Use $\pi = \frac{22}{7}$)

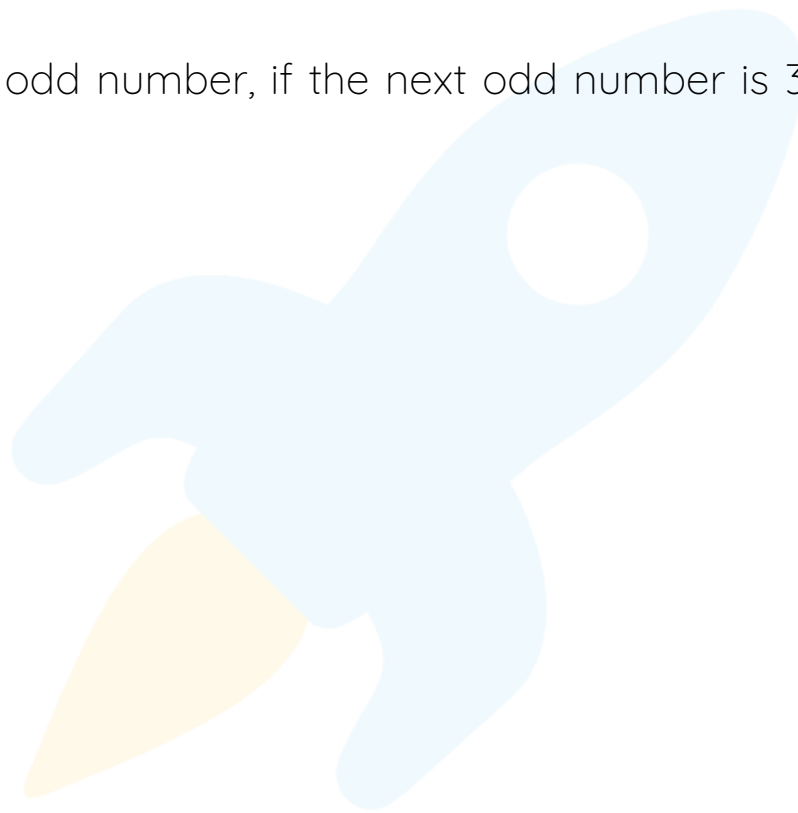


Q12) Ten years from now Ramit's age will be six times his present age. What is Ravi's present age?

Q13) Find the three numbers whose sum is 99 given that these three numbers are in the ratio 2:3:4.

Q14) A plot of land, whose length and breadth are in the ratio 3:2, needs to be fenced. It costs Rs 50 per meter to fence the plot. If the total fencing cost is Rs 10,000 find the dimensions of the plot.

Q15) x is an odd number, if the next odd number is $3x$. Find the value of x .



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ANSWERS

1(a) $x = -2$	1(b) $x = -12$	1(c) $x = 15$	1(d) $x = -6$
2(a) $x = -\frac{3}{2}$	2(b) $x = \frac{5}{3}$	2(c) $x = -\frac{1}{7}$	3(a) $x = 15$
3(b) $x = \frac{20}{7}$	4(a) $x = -1$	4(b) $x = 0$	5(a) $x = -\frac{19}{4}$
5(b) $x = -\frac{8}{7}$	6) $x = \frac{6}{23}$ and $23x+4 = 10$	7) $x = \frac{17}{20}$	8) Length = 5 units
9) Length = 4 units	10) Length = 4 units, Breadth = 3 units	11) $r = 7$ units	12) 2 years
14) 22, 33, 44	14) 60 m \times 40m	15) $x = 2$	

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.

