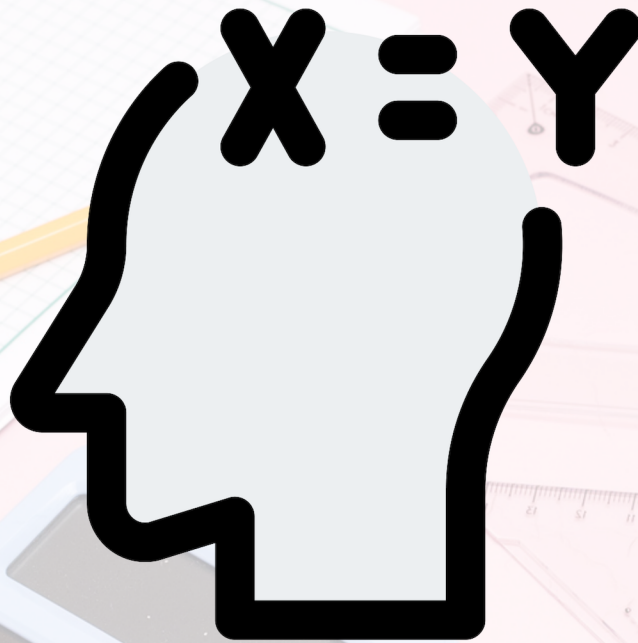




SIMPLE EQUATIONS

Worksheet 1



**YOU DON'T HAVE TO BE GREAT TO START,
BUT YOU HAVE TO START TO BE GREAT**



1. Which of the following equations having $x = 12$, as its solution?

A. $\frac{x}{3} - \frac{x}{2} = 8$ B. $\frac{x}{3} - \frac{x}{4} = 16$ C. $\frac{x}{2} + \frac{x}{3} - \frac{x}{4} = 7$ D. $\frac{2x}{3} = \frac{8}{12} - \frac{0.25}{3}$

2. Six more than four times a number is four less than five times the same number. Find the number.

A. 7 B. 8 C. 10 D. 9

3. State 'T' for true and 'F' false.

(i) $y^2 + 9$ is a linear equation in one variable.

(ii) The terms linear equation and linear expression are same.

(iii) If x is an even number, then the next odd number is $(2x + 1)$.

(iv) If both sides of an equation is to divided by the same (non-zero) number, then there is a change in equality.

(v) 1 is the solution of $\frac{2x + 1}{3x + 5} = \frac{3}{8}$

	(i)	(ii)	(iii)	(iv)	(v)
A.	T	F	T	F	T
B.	T	T	T	T	T
C.	F	F	F	F	T
D.	F	T	F	F	F

4. What is the value of x in the given equation? $\frac{(3x + 1)}{16} + \frac{(2x - 3)}{7} = \frac{(x + 3)}{8} + \frac{(3x - 1)}{14}$

A. 2 B. 4 C. 3 D. 5

5. P's age is twice of Q, Q's age is twice of R and R's age is twice of S. If the average of the ages of P, Q, R and S is 15 years, then what is the sum of present ages of Q and S?

A. 4 years B. 20 years C. 16 years D. 32 years

6. Solve for x :

(i) $2(x + 5) - (x - 6) = 3(x - 7) - 3$

(ii) $(3x + 4)^2 + (3x - 2)^2 = (6x + 5)(3x - 2) + 12$

	(i)	(ii)
A.	1	2
B.	-1	-2
C.	2	0
D.	0	1

7. Solve for x: $\frac{2}{5}(4x - 1) - \left[4x - \left(\frac{1 - 3x}{2}\right)\right] = \frac{x - 7}{2}$

A. 0

B. $\frac{9}{11}$

C. $\frac{2}{11}$

D. -1

8. For what value of P, the given equation is correct? $\frac{1 - P}{6} + \frac{2P}{3} - \frac{1 - 7P}{4} = 2\frac{1}{6}$

A. -1

B. 2

C. -2

D. 1

9. Two years ago, Mohit was three times as old as his son and two years hence, twice of Mohit's age will be equal to five times that of his son. The present age of Mohit is _____.

A. 14 years

B. 38 years

C. 32 years

D. 34 years

10. Vidhushi is 8 times as old as her grandson. Four years ago, Vidhushi was 12 times as old as her grandson. Find the difference between their present ages.

A. 88 years

B. 77 years

C. 11 years

D. 99 years

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