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SUBMIT

Algebraic Fractions (Addition and Subtraction).
Solving Equations with Algebraic Fractions. Higher KS4 (KS3)

- A. Simplify (write them as a single fraction in its simplest):
- $\frac{3}{5x} - \frac{1}{10x}$
 - $\frac{8}{5x} - \frac{4}{15x}$
 - $\frac{1}{4x} + \frac{1}{5x}$
 - $\frac{2}{x} + \frac{3}{2x}$
 - $\frac{1}{2x} + \frac{1}{x}$
 - $\frac{1}{xy} + \frac{1}{xz}$
 - $\frac{y}{x} - \frac{x}{y}$
 - $\frac{1}{xy} + \frac{1}{xz} + \frac{1}{yz}$
 - $\frac{1}{x} + \frac{1}{(x+1)}$
 - $\frac{1}{x} - \frac{1}{(x+1)}$
 - $\frac{1}{x} + \frac{1}{(x-1)}$
 - $\frac{1}{(x+1)} + \frac{1}{(x+2)}$
 - $\frac{1}{(x+1)} - \frac{1}{(x+2)}$
 - $\frac{3}{(x+3)} - \frac{2}{(x+2)}$
 - $\frac{2}{(x+1)} + \frac{1}{(x+1)^2}$
 - $\frac{1}{(x+1)} + \frac{1}{(x-1)}$
 - $\frac{1}{(x+1)} - \frac{1}{(x-1)}$
 - $\frac{1}{(x-1)} - \frac{1}{(x+1)}$
 - $\frac{1}{(x+1)} - \frac{1}{x^2-1}$
 - $\frac{1}{x+2} - \frac{1}{x+3}$
 - $\frac{x+1}{x+2} + \frac{x-3}{3x+6}$
 - $\frac{x+2}{2x+1} - \frac{x-2}{2x+1}$
 - $\frac{1}{x^2-1} - \frac{1}{x^2-x-6}$
 - $\frac{x+2}{x+3} - \frac{x-1}{x}$
 - $\frac{x}{x-y} + \frac{x}{y-x}$

Name _____
Algebra Homework #3

Solve.
 Key: 9) -4 10) 2 11) -75 12) -2
 13) -4/9 14) 21 15) -24

Ky: 1) -12 2) 12 3) 18 4) -10 5) 0 6) 30 7) -10 8) -6
Solve.

- $a + 8 = -4$
- $c - 9 = 3$
- $b - 10 = 8$
- $t + 6 = -4$
- $4 + n = 4$
- $-12 + p = 18$
- $6 + x = -4$
- $5 + x = -1$
- $-8x = 32$
- $14 = 7x$
- $15 = \frac{x}{-5}$
- $-4 = 2x$
- $9m = -4$
- $-7 = \frac{m}{-3}$
- $\frac{y}{4} = -6$



**R D Sharma Solutions For Class 10 Maths Chapter 3-
 Pair of Linear Equations in Two Variables**

Exercise 3.7

Page No: 3.85

1. The sum of two numbers is 8. If their sum is four times their difference, find the numbers.
Solution:

Let's assume the two numbers to be x and y.
 Also let's consider that, x is greater than or equal to y.

Now, according to the question
 The sum of the two numbers, $x + y = 8$ (i)
 Also given that, their sum is four times their difference. So, we can write;
 $x + y = 4(x - y)$
 $\Rightarrow x + y = 4x - 4y$
 $\Rightarrow 4x - 4y - x - y = 0$
 $\Rightarrow 3x - 5y = 0$ (ii)

Solving (i) and (ii), we can find x and y, so the required two numbers.
 On multiplying equation (i) by 5 and then add with equation (ii), we get here;
 $5(x + y) + (3x - 5y) = 5 \times 8 + 0$
 $\Rightarrow 5x + 5y + 3x - 5y = 40$
 $\Rightarrow 8x = 40$
 $\Rightarrow x = 5$

Putting the value of x in (i), we find y
 $5 + y = 8$
 $\Rightarrow y = 8 - 5$
 $\Rightarrow y = 3$

Therefore, the two numbers are 5 and 3.

2. The sum of digits of a two-digit number is 13. If the number is subtracted from the one obtained by interchanging the digits, the result is 45. What is the number?
Solution:

Let's assume the digit at the unit's place as x and at ten's place as y. Then the required number is $10y + x$.
 Also it's given that, the sum of the digits of the number is 13,
 So, $x + y = 13$ (i)

On interchanging the position of digits, the new number so formed will be $10x + y$.
 Again it's given that, the difference between the new number so formed upon interchanging the digits and the original number is equal to 45. Therefore, this can be expressed as;
 $(10x + y) - (10y + x) = 45$
 $\Rightarrow 10x + y - 10y - x = 45$
 $\Rightarrow 9x - 9y = 45$

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