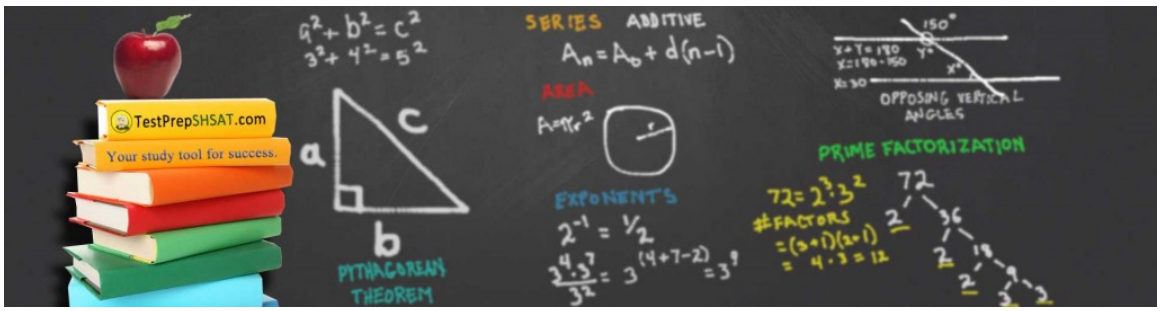
Name: Date:



WORKSHEET :

Common Denominators

1.	1/3 + 1/4 =	1/2 + 1/3 =	1/4 + 1/5 =
2.	2/7 + 4/5 =	3/8 + 12/9 =	4/5 + 3/2 =
3.	4/5 - 1/5 =	4/7 - 1/3 =	1/2 - 3/8 =
4.	7/9 + 3/5 - 2/3 =	1/2 + 1/3 + 1/5 =	2/5 + 2/3 - 5/8 =
5.	1/a + 1/b =	2/x - 5/y =	3/c + 7/d =
6.	a/b + b/a =	x/2 + y/5 =	a/4 + a/5 =
7.	(a + b)/2a - 2a/5 =	3/2x + (y + 1)/xy =	2/(y + 1) + 3 =

ANSWERS :

Common Denominators

1.	$1/3 + 1/4 = 7/12$	$1/2 + 1/3 = 5/6$	$1/4 + 1/5 = 9/20$
2.	$2/7 + 4/5 = 38/35$	$3/8 + 12/9 = 123/72$	$4/5 + 3/2 = 23/10$
3.	$4/5 - 1/5 = 3/5$	$4/7 - 1/3 = 5/21$	$1/2 - 3/8 = 1/8$
4.	$7/9 + 3/5 - 2/3 = 32/45$	$1/2 + 1/3 + 1/5 = 31/30$	$2/5 + 2/3 - 5/8 = 53/120$
5.	$1/a + 1/b = (a + b)/ab$	$2/x - 5/y = (2y - 5x)/xy$	$3/c + 7/d = (3d + 7c)/cd$
6.	$a/b + b/a = (a^2 + b^2)/ab$	$x/2 + y/5 = (5x + 2y)/10$	$a/4 + a/5 = 9a/20$
7.	$(a + b)/2a - 2a/5 =$ $(5a + 5b - 4a^2)/10a$	$3/2x + (y + 1)/xy =$ $(5y/2 + 1)/xy$	$2/(y + 1) + 3 =$ $(3y + 5)/(y + 1)$

KEY CONCEPTS:

Common Denominators:

1. Find common denominators when adding and subtracting fractions (not necessary for multiplication and division of fractions)
    a. Multiply each numerator by the other fraction denominator and sum the results to get the new numerator value
    b. Find the product of every denominator and use the value as the common denominator.
    c. Express fraction result as n/d

2. Find common denominators to more than two fractions being added/subtracted.
    a. Multiply each numerator by all the other fraction denominators and sum the results to get the new numerator value
    b. Find the product of every denominator and use the value as the common denominator.
    c. Express fraction result as n/d

3. Find common denominators for algebraic fractions in addition to numerals
    a. Follow the procedure above, but use variables and expressions rather than numerical values.