6.4 LEAST COMMON DENOMINATORS

Equivalent Fractions

1) $\frac{2}{3} = \frac{\quad}{15}$

2) $\frac{5}{8} = \frac{\quad}{56}$

3) $\frac{2a}{15} = \frac{\quad}{45}$

4) $\frac{5}{2a} = \frac{\quad}{18a^2}$

Equivalent Fractions

4) $\frac{2}{x-3} = \frac{\quad}{(x-3)(x+4)}$

5) $\frac{3}{2x-1} = \frac{\quad}{(2x-1)^2}$

Equivalent Fractions

6) $\frac{7}{x-3} = \frac{\quad}{4x-12}$

7) $\frac{5}{3-y} = \frac{\quad}{3y-y^2}$

LCM of Monomials

8) 4, 6

9) 12, 15

10) 5, 9

LCM of Monomials

11) $20x^3, 30x^2$

LCM of Monomials

11) $20x^3, 30x^2$

- Find the LCM of the coefficients
- Find the bigger power of common variables
- Add in also the uncommon variables

LCM of Monomials

12) $15x^2y, 20x^3$

- Find the LCM of the coefficients
- Find the bigger power of common variables
- Add in also the uncommon variables

LCM of Monomials

13) $8x^3yz^3, 12x^2z^5$

LCM with Monomials

14) $5x^3y, 3z^5$

LCM with Monomials and Binomials

14) $3(x+1)(x+5), 6(x+1)$

- Find the LCM of the coefficients
- Find the bigger power of common factors (either variables or binomials)
- Add in also the uncommon factors

LCM with Monomials and Binomials

15) $12(x-4)(x+3)^2, 8(x+3)$

- Find the LCM of the coefficients
- Find the bigger power of common factors (either variables or binomials)
- Add in also the uncommon factors

LCM with Monomials and Binomials

16) $5(c+2), 4(c-7)$

- Find the LCM of the coefficients
- Find the bigger power of common factors (either variables or binomials)
- Add in also the uncommon factors

LCM with Monomials and Binomials

17) $6x-30, 9x-45$

- IF POSSIBLE FACTOR THEM OUT!!!!
- Find the LCM of the coefficients
- Find the bigger power of common factors (either variables or binomials)
- Add in also the uncommon factors

LCM with Monomials and Binomials

18) $2y-4, y^2-4$

- IF POSSIBLE FACTOR THEM OUT!!!!
- Find the LCM of the coefficients
- Find the bigger power of common factors (either variables or binomials)
- Add in also the uncommon factors

Finding the LCD

19) $\frac{3}{5}, \frac{4}{6}$

Finding the LCD

20) $\frac{5}{9x-36}, \frac{4}{5x-20}$

Finding the LCD

21) $\frac{3a}{a+1}, \frac{2}{a-1}$

22) $\frac{3}{a^2-4}, \frac{5}{a+2}$

Make equivalent fractions after finding their LCD

23) $\frac{5}{12}, \quad \frac{9}{16}$

Make equivalent fractions after finding their LCD

24) $\frac{1}{3mn^2}, \frac{2}{m^2n}$

Make equivalent fractions after finding their LCD

25) $\frac{3}{2y-4}, \quad \frac{1}{y^2-4}$