Agenda

1) Go over HW Questions
- Groups
- On board

2)Review Worksheets: Level 3 &4
5.4: Objective: To Simplify Rational Algebraic Expressions
5.5: Objective: To Multiply and Divide Rational Expressions

3)Exit Ticket on 5.5

HW: Worksheet: "5-5 Products and Quotients of Rational Expressions" # 1-22 Even

Level 3: Simplify each expression.

13) $\dfrac{27}{27x+18}$

14) $\dfrac{v^2-7v-30}{v^2-5v-24}$

15) $\dfrac{x^2+8x+12}{x^2+3x-18}$

16) $\dfrac{x^2-11x+18}{x^2+2x-8}$

17) $\dfrac{b^2+3b-28}{b^2-49}$

18) $\dfrac{v^2-3v-40}{v^2-11v+24}$

19) $\dfrac{4n-4}{6n-20}$

20) $\dfrac{v^2-5v-14}{v^2+4v+4}$

Level 3: ANSWER KEY

13) $\dfrac{27}{27x+18}$

$\dfrac{3}{3x+2}$

14) $\dfrac{v^2-7v-30}{v^2-5v-24}$

$\dfrac{v-10}{v-8}$

15) $\dfrac{x^2+8x+12}{x^2+3x-18}$

$\dfrac{x+2}{x-3}$

16) $\dfrac{x^2-11x+18}{x^2+2x-8}$

$\dfrac{x-9}{x+4}$

17) $\dfrac{b^2+3b-28}{b^2-49}$

$\dfrac{b-4}{b-7}$

18) $\dfrac{v^2-3v-40}{v^2-11v+24}$

$\dfrac{v+5}{v-3}$

19) $\dfrac{4n-4}{6n-20}$

$\dfrac{2(n-1)}{3n-10}$

20) $\dfrac{v^2-5v-14}{v^2+4v+4}$

$\dfrac{v-7}{v+2}$

Level 4: Simplify each expression.

21) $\dfrac{6v^3 + 42v^2}{2v^2 + 26v + 84}$

22) $\dfrac{x^3 - x^2 - 42x}{2x^2 - 20x + 42}$

23) $\dfrac{2v^2 + 10v - 48}{8v + 64}$

24) $\dfrac{9x^2 + 81x}{x^3 + 8x^2 - 9x}$

25) $\dfrac{x^2 + 2x - 80}{2x^3 - 24x^2 + 64x}$

26) $\dfrac{3r^2 - 39r + 90}{r^2 - 3r - 70}$

Level 4: ANSWER KEY

21) $\dfrac{6v^3+42v^2}{2v^2+26v+84}$

$\dfrac{3v^2}{v+6}$

22) $\dfrac{x^3-x^2-42x}{2x^2-20x+42}$

$\dfrac{x(x+6)}{2(x-3)}$

23) $\dfrac{2v^2+10v-48}{8v+64}$

$\dfrac{v-3}{4}$

24) $\dfrac{9x^2+81x}{x^3+8x^2-9x}$

$\dfrac{9}{x-1}$

25) $\dfrac{x^2+2x-80}{2x^3-24x^2+64x}$

$\dfrac{x+10}{2x(x-4)}$

26) $\dfrac{3r^2-39r+90}{r^2-3r-70}$

$\dfrac{3(r-3)}{r+7}$

Score: _____/5 Name_____

Exit Ticket Block_____

Simplify:

$$\frac{2ux}{1} \div \frac{2u^2}{x} \cdot \frac{u}{2x^2}$$

Score: _____/5 Name_____

Exit Ticket Block_____

Simplify:

$$\frac{7x^2}{9y} \div \frac{4x}{15y^2} \cdot \frac{6xy}{35}$$