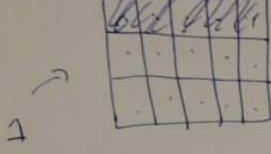
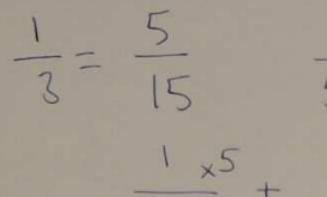
Fractions

$$\frac{1}{3} + \frac{1}{5} = \frac{8}{15}$$





$$\frac{1}{5} = \frac{3}{15}$$
 $\frac{1}{45 \times 3}$ 

$$\frac{5}{15} + \frac{3}{15}$$

$$= \frac{8}{15}$$

complications

- o under numbers.

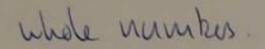
  o under numbers.

  o multiplication and division
  - 1 Letters

$$\frac{1}{-2} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{-1}{2} = -\frac{1}{2}$$

$$\frac{-1 \times 3}{2 \times 3} + \frac{1 \times 2}{3 \times 2} = \frac{-3}{6} + \frac{2}{6} =$$

$$-\frac{3+2}{6} = \frac{-1}{6}$$



$$\frac{2}{3} - 1 = \frac{2}{3} - \frac{1 \times 3}{1 \times 3}$$

Tuultiplication 
$$\frac{2}{3} - \frac{3}{3} = \frac{2-3}{3}$$

multiplication

$$\frac{4}{5} \times \frac{11}{2} = \frac{44}{10} 5 \text{ Cannon factor.}$$

$$22 \text{ can simplify.}$$

$$\frac{10/2}{10/2} = \frac{22}{5}$$

division 
$$\frac{4}{5} = \frac{11}{2}$$
  $\frac{4}{5} / \frac{11}{2}$ 

to divide, multiply by 1/fraction.

$$\frac{4}{5} : \frac{11}{2} = \frac{4}{5} \times \frac{2}{11} = \frac{8}{55}$$

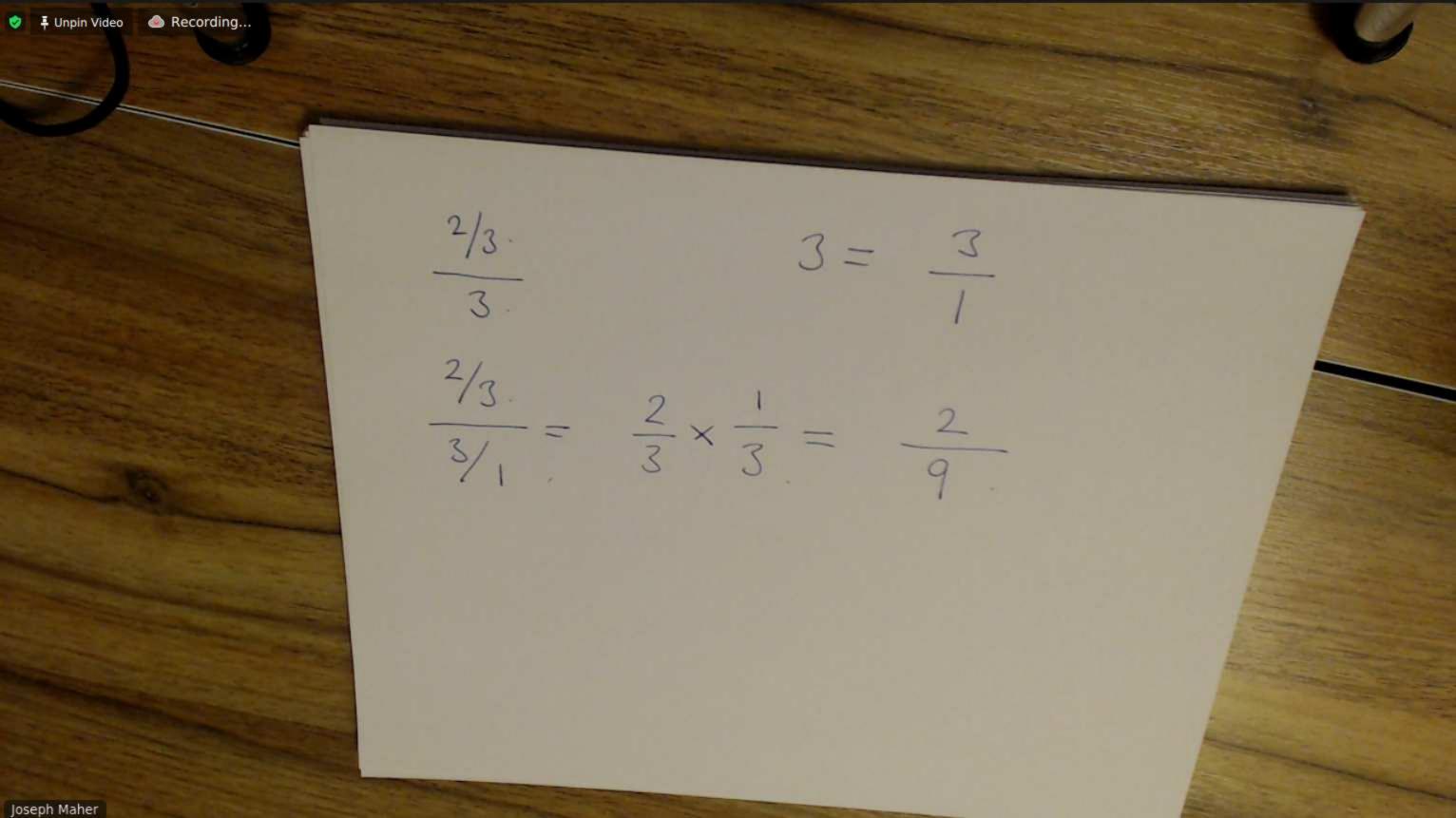
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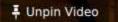
Quiz. Q2
$$\frac{5}{3/4} + 2$$

$$\frac{5}{1} \times \frac{4}{3} + 2$$

$$\frac{20}{3} + 2 = \frac{20}{3} + \frac{2 \times 3}{1 \times 3}$$

$$= \frac{20}{3} + \frac{6}{3} = \frac{26}{3}$$







$$\frac{5}{3} + \frac{1}{7} + \frac{1}{7} = \frac{3}{21} + \frac{3}{21} = \frac{38}{21}$$

$$\frac{3}{21} + \frac{3}{21} = \frac{38}{21}$$

$$(1) \quad \chi^2 \quad \chi^3 = \chi$$

$$\chi \cdot \chi \cdot \chi \cdot \chi \cdot \chi = \chi$$

$$\chi \cdot \chi \cdot \chi \cdot \chi \cdot \chi \cdot \chi = \chi$$

$$(2) (\chi^2)^3 = \chi^6$$

$$(2\chi)(\chi\chi)(\chi\chi) = \chi^6$$

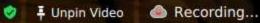
$$\chi^{3} = \frac{1}{\chi}$$

$$\chi^{3} = \chi^{2}$$

$$\left(\begin{array}{c} \chi & y \\ \overline{y} & 3/2 \end{array}\right) \qquad \text{cube roof} \\
= \begin{pmatrix} 8y^{3/2} \\ \overline{y} & 3/2 \end{pmatrix} \qquad \chi = 3\sqrt{2} \\
\chi & y & 3/2 \\
\chi & y &$$

x y-1

$$\left(\frac{36 \text{ s}^{4} \text{ t}^{4}}{5^{3} \text{ t}^{9/2}}\right)^{-\frac{1}{2}}$$
. rule  $\left(\frac{1}{z^{-\frac{1}{2}}}\right)^{-\frac{1}{2}}$ 



$$\left(\frac{t^{1/2}}{365}\right)^{1/2} = \left(\frac{t^{1/2}}{1/2}\right)^{1/2}$$

$$\left(\frac{t^{1/2}}{365}\right)^{1/2} = \left(\frac{36}{36}\right)^{1/2} \frac{1/2}{5}$$

$$\sqrt{3} = 6.$$

$$\frac{ru(e)}{(ab)^{P}=q^{P}b^{P}}$$

$$\left(\frac{ab}{b}\right)^{P}=\frac{a}{b}$$

$$\left(\frac{a}{b}\right)^{P}=\frac{a}{b}$$

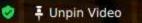
$$\left(\frac{2y^{2}}{2y^{2}}\right)^{-3} \cdot \left(\frac{2y^{2}}{2y^{2}}\right)^{-3} \cdot \left(\frac{2y^{2}}{2$$

x-3 y12 76

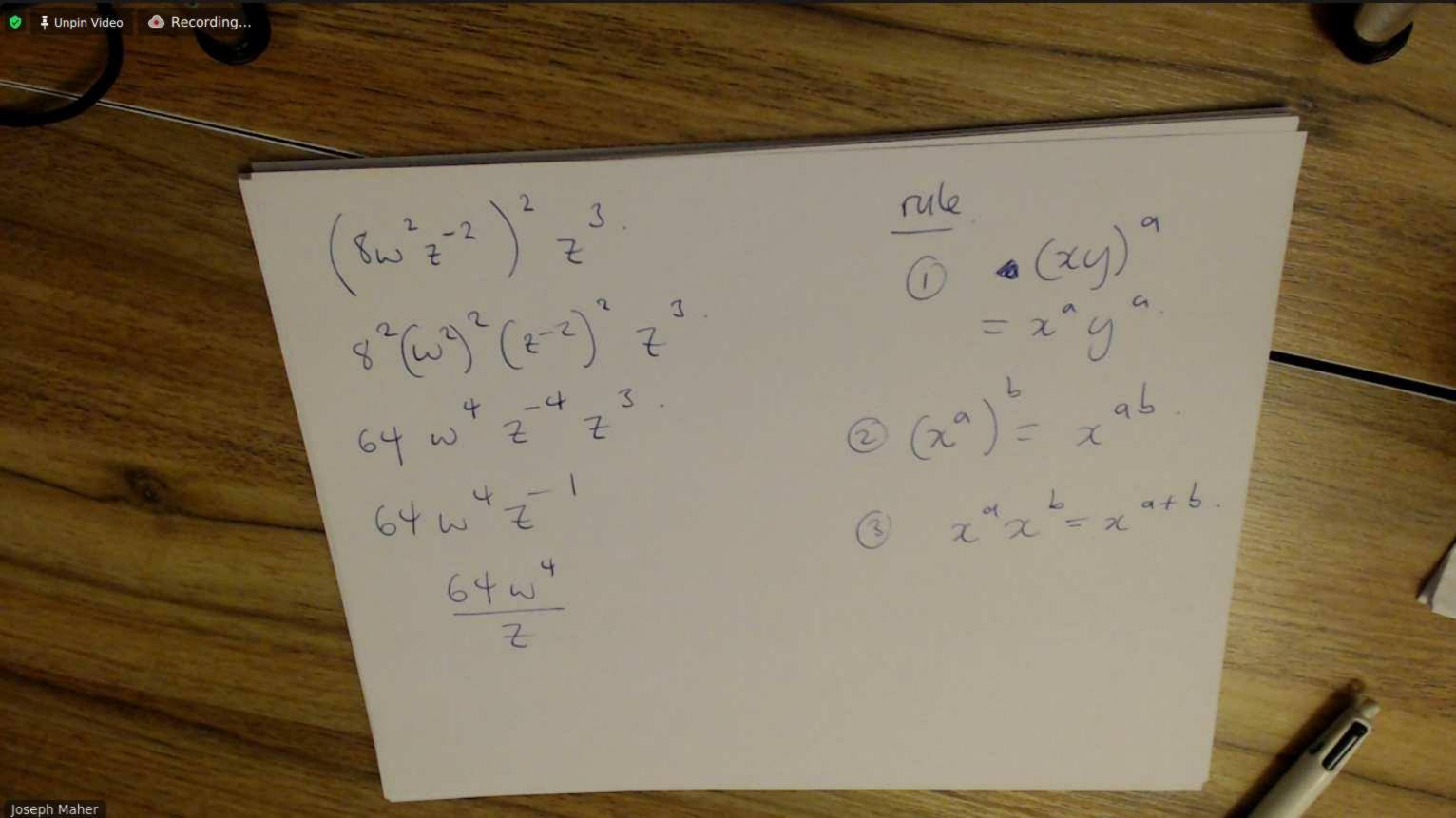
$$\frac{\chi}{\chi} \frac{y}{z} \frac{z}{z}$$

$$= \chi^{3} \frac{y}{z}$$

$$= \chi^{3} \frac{z}{z}$$



$$\frac{\chi y^{2}}{\chi^{2}} = \frac{1}{\chi^{3}} = \chi^{9} y^{2} = \chi^{9} y$$



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## Classwork

asswork
$$\frac{2/3}{1+5} = \frac{5}{1+7} = \frac{5}{15} + \frac{3}{15} = \frac{2}{15}.$$

$$\frac{2/3}{5/1} = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}.$$

$$5 \stackrel{7}{\cancel{7}} \stackrel{7}{\cancel{$$

$$\frac{24}{3} - \frac{44^{3}}{74^{3}} = \frac{14}{21} - \frac{12}{21} - \frac{8/9}{9} = \frac{8}{9} \times \frac{11}{10} - \frac{88}{90} = \frac{8}{90} \times \frac{11}{10} - \frac{88}{90} = \frac{2}{10} = \frac{2}{21}$$

$$\frac{2/3}{5/1} = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$$

$$\frac{7}{3/4} = \frac{7}{1} \times \frac{4}{3} = \frac{28}{3}$$

$$\frac{8/9}{-10/11} = \frac{8}{9} \times \frac{11}{10} - \frac{88}{90}$$

80

$$\frac{12}{22} + \frac{11}{22}$$

$$\frac{6 \times 2}{11 \times 2} \frac{1 \times 11}{2 \times 11} = \left(\frac{6}{11} + \frac{1}{2}\right) \times \left(\frac{4}{7} - \frac{3}{2}\right)$$

$$\frac{4 \times 2}{4 \times 2} \frac{3 \times 7}{3 \times 7} = \left(\frac{11}{11} + \frac{1}{2}\right) \times \left(\frac{4}{7} - \frac{3}{2}\right)$$

$$\frac{23}{22} = \frac{23}{22} \times \frac{-14}{13}$$

$$\frac{-13}{14} = -23 \times 14$$

22×13.

08

$$\frac{6 \times 2}{11 \times 2} = \frac{1 \times 11}{11 \times 2} = \left(\frac{6}{11} + \frac{1}{2}\right) \times \left(\frac{4}{7} - \frac{3}{2}\right)$$

$$\frac{4 \times 2}{7 \times 2} = \frac{3 \times 7}{2 \times 7} = \left(\frac{11}{11} + \frac{1}{2}\right) \times \left(\frac{4}{7} - \frac{3}{2}\right)$$

$$\frac{12}{22} + \frac{11}{22}$$

$$\frac{23}{22}$$

$$\frac{8}{14} - \frac{21}{14}$$

$$= \frac{-13}{14}$$

$$= \frac{-23 \times 14}{22 \times 13}$$

$$= \frac{-322}{286} = \frac{161}{143}$$