

DO NOW

Write 3 equivalent fractions.

$$\frac{1}{5} = \frac{2}{10} = \frac{3}{15}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$$

FRACTION REVIEW

Changing Mixed Numbers to Improper Fractions

$$* \frac{\text{denominator}(\text{whole \#}) + \text{numerator}}{\text{denominator}}$$

Ex: 1. $3\frac{5}{6} = \frac{23}{6}$ 2. $4\frac{2}{3} = \frac{14}{3}$

3. $5\frac{3}{8} = \frac{43}{8}$ 4. $7\frac{1}{4} = \frac{29}{4}$

Changing Improper Fractions to Mixed Numbers

divide numerator by denominator

5. $\frac{31}{5} = 6\frac{1}{5}$ 6. $\frac{15}{4} = 3\frac{3}{4}$

denom. $\rightarrow 5 \overline{)31}$
 $\quad \underline{-30}$
 $\quad \quad 1$ ← numerator

7. $\frac{24}{11} = 2\frac{2}{11}$ 8. $\frac{19}{3} = 6\frac{1}{3}$

Reducing Fractions

* divide numerator and denominator by GCF

9. $\frac{15}{18} = \frac{5}{6}$ 10. $2\frac{9}{27} = 2\frac{1}{3}$

11. $7\frac{12}{36} = 7\frac{1}{3}$ 12. $\frac{145}{500} = \frac{29}{100}$

Multiply Fractions

* Change mixed #'s to improper fractions first

** Reduce $\rightarrow$ any one numerator with any one denominator
 Then multiply across

13. $\frac{2}{3} \times \frac{4}{12} = \frac{4}{9}$ 14. $\frac{13}{5} \times \frac{21}{2} = \frac{3}{10}$

15. $2\frac{2}{3} \times 2\frac{1}{4} = \frac{28}{3} \times \frac{9}{4} = \frac{6}{1} = 6$ 16. $4\frac{1}{3} \times \frac{9}{13} = \frac{13}{3} \times \frac{9}{13} = 3$

Divide Fractions

* STAY, CHANGE, FLIP

17. $\frac{12}{25} \div \frac{4}{15} = \frac{12}{25} \times \frac{15}{4} = \frac{9}{5} = 1\frac{4}{5}$ 18. $5\frac{2}{3} \div 1\frac{1}{3} = \frac{17}{3} \div \frac{4}{3} = \frac{17}{3} \times \frac{3}{4} = \frac{17}{4} = 4\frac{1}{4}$

19. $2\frac{1}{3} \div 7 = \frac{7}{3} \div 7 = \frac{7}{3} \times \frac{1}{7} = \frac{1}{3}$ 20. $2\frac{1}{2} \div 3\frac{3}{4} = \frac{5}{2} \div \frac{15}{4} = \frac{5}{2} \times \frac{4}{15} = \frac{2}{3}$

Add/Subtract Fractions

*Need LCD; Rewrite fractions; Add/Subtract numerators

$$21. \frac{1}{8} + \frac{3}{4}$$
$$\frac{1}{8} + \frac{6}{8}$$
$$\boxed{7 \frac{7}{8}}$$

$$23. 2\frac{17}{50} + 5\frac{3}{5}$$
$$2\frac{17}{50} + 5\frac{30}{50}$$
$$\boxed{7 \frac{47}{50}}$$

$$22. \frac{1}{3} - \frac{1}{8}$$
$$\frac{8}{24} - \frac{3}{24}$$
$$\frac{5}{24} = \boxed{\frac{1}{8}}$$

$$24. \frac{20}{27} - \frac{2}{9}$$
$$\frac{20}{27} - \frac{6}{27}$$
$$\boxed{\frac{14}{27}}$$

HOMEWORK

Fraction Review Worksheet