

Fractions

Name _____ Section/Period _____

Assigned: _____

Determine what set(s) of numbers each of the following belong to:

1. 830 _____

2. $\frac{7}{4}$ _____

3. $\frac{4}{0}$ _____

4. $\frac{8}{3}$ _____

5. 0 _____

6. 1 _____

Simplify each of the following. Use either the standard methods or the formulas from today. All answers should be simplified and no improper fractions should be left. Show all work.

7. $\frac{6}{5} + \frac{3}{6}$

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

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9. $3\left(\frac{1}{7} - \frac{1}{9}\right)$

10. $-4\left(\frac{1}{4} - \frac{3}{7}\right)$

11. $\frac{5}{3} - \frac{7}{8} + \frac{2}{9}$

12. $\frac{5}{4} \div \frac{6}{9}$

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13. $12\frac{3}{5} \div -\frac{21}{4}$

14. $\left(\frac{5}{7}\right)\left(9\frac{1}{3} \div \frac{7}{9}\right)$

15. $6\left(-\frac{1}{3}\right)$

16. $6 \div -3$

17. Explain what happened with numbers 15 and 16 above. Why?

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18. $4\frac{2}{3} + 5\frac{7}{8}$

19. $5\frac{3}{4} - 2\frac{4}{6}$

20. $9\frac{2}{5} \div 4\frac{7}{8}$

Fractions

For the following questions, change the improper fraction given into a mixed number in simplest form.

21. $\frac{135}{6}$

22. $\frac{3857}{13}$

23. $\frac{342}{12}$

24. $\frac{27365}{7}$

Fractions

For each of the following, determine if the fractions are equal or not.

25. $\frac{2}{3}$ and $\frac{4}{7}$

26. $\frac{4}{9}$ and $\frac{16}{36}$

27. $\frac{10}{12}$ and $\frac{5}{6}$

28. $2\frac{1}{4}$ and $1\frac{15}{12}$

Fractions

29. You have a pie. Adrian eats $\frac{1}{4}$ of the pie. Cindy eats $\frac{1}{3}$ of the pie.

Mayreni eats $\frac{1}{6}$ of the pie. If Mohammed eats the rest of the pie, what fraction of the pie did Mohammed eat?