October 23, 2020

7th Grade
Oct 23, 2020

Please get out your HW.

Today we will:
-check WS
-take notes on multiplying and dividing fractions
-work in ALEKS if time

I will do binder checks throughout the week.

HOMEWORK:

THQ due MONDAY

ALEKS-60 minutes due by 11:59pm Oct 26

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Lesson 2 Homework Practice

Rational Numbers

Write each number as a fraction.

1. 29 $\frac{29}{1}$

2. 0 $\frac{0}{1}$ or any denominator except 0

3. $3\frac{7}{8}$ $\frac{31}{8}$

4. −47 $-\frac{47}{1}$

5. $-5\frac{6}{7}$ $-\frac{41}{7}$

6. $4\frac{3}{20}$ $\frac{83}{20}$

7. $-7\frac{2}{15}$ $-\frac{107}{15}$

8. $10\frac{2}{9}$ $\frac{92}{9}$

9. 15 $\frac{15}{1}$

Write each decimal as a fraction or mixed number in simplest form.

10. 0.32 $\frac{8}{25}$

11. 0.42 $\frac{21}{50}$

12. $0.\overline{8}$ $\frac{8}{9}$

13. $-6.\overline{3}$ $-6\frac{1}{3}$

14. 0.91 $\frac{91}{100}$

15. 17.875 $17\frac{7}{8}$

16. $-0.666\ldots$ $-\frac{2}{3}$

17. $0.\overline{07}$ $\frac{7}{99}$

18. $9.\overline{7}$ $9\frac{7}{9}$

19. $7.\overline{75}$ $7\frac{25}{33}$

20. 0.525 $\frac{21}{40}$

21. −8.26 $-8\frac{13}{50}$

22. $6.\overline{5}$ $6\frac{5}{9}$

23. −4.12 $-4\frac{3}{25}$

24. 13.006 $13\frac{3}{500}$

Identify all sets to which each number belongs.

25. 15 natural, whole, integer, rational

26. $-3.\overline{8}$ rational

27. −5.075 rational

28. $\frac{50}{25}$ natural, whole, integer, rational

29. π irrational

30. $-\frac{4}{2}$ integer, rational

= 2

= −2

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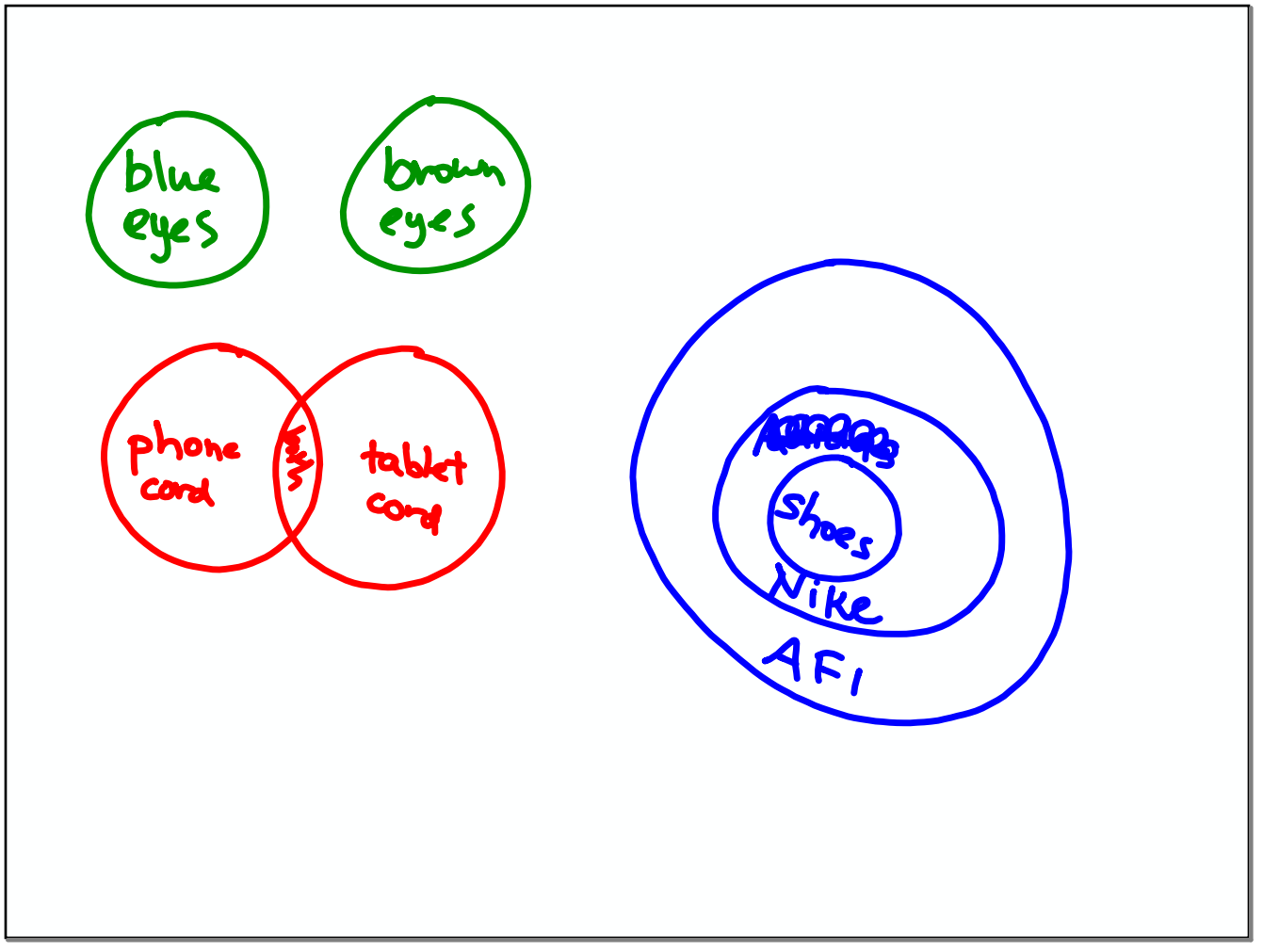

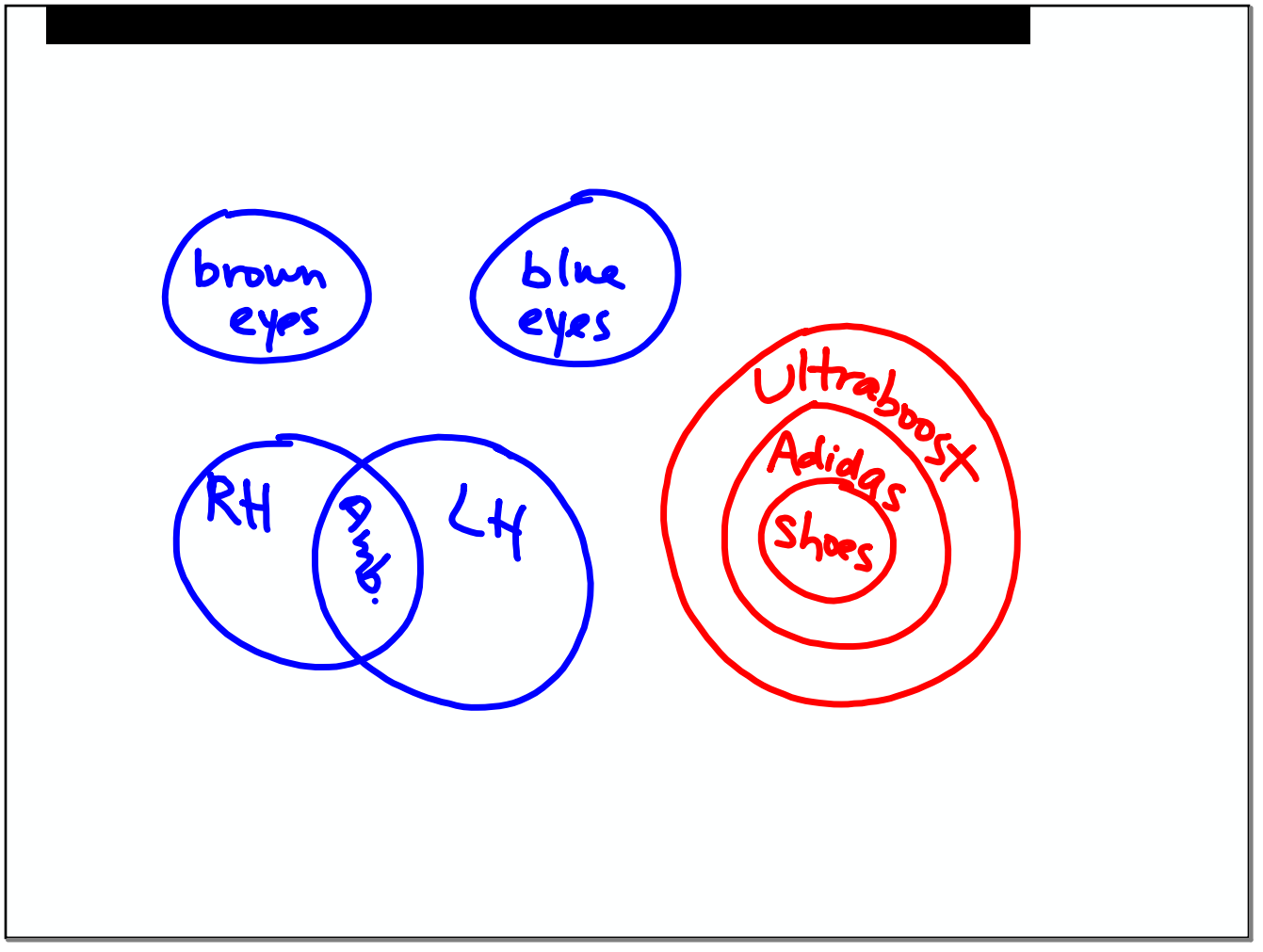
brown eyes
blue eyes
RH
Both
LH
Ultraboost
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Shoes

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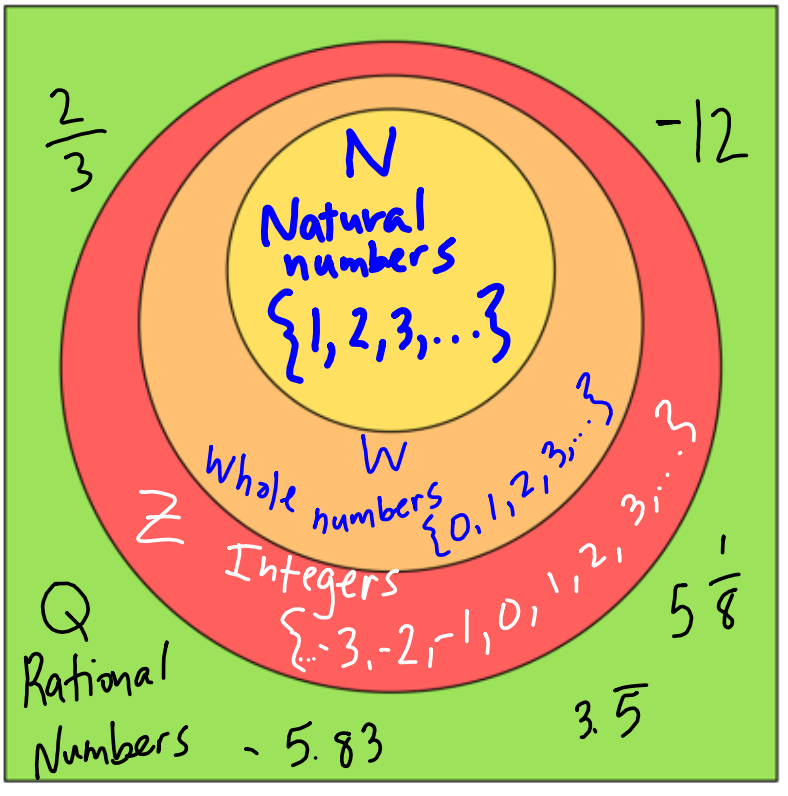
Identifying Sets



Rational Numbers are numbers that CAN be written as a fraction. This includes: fractions, mixed numbers, terminating decimals, or repeating decimals.

Irrational Examples:

π 3.19119119... $\sqrt{2}$

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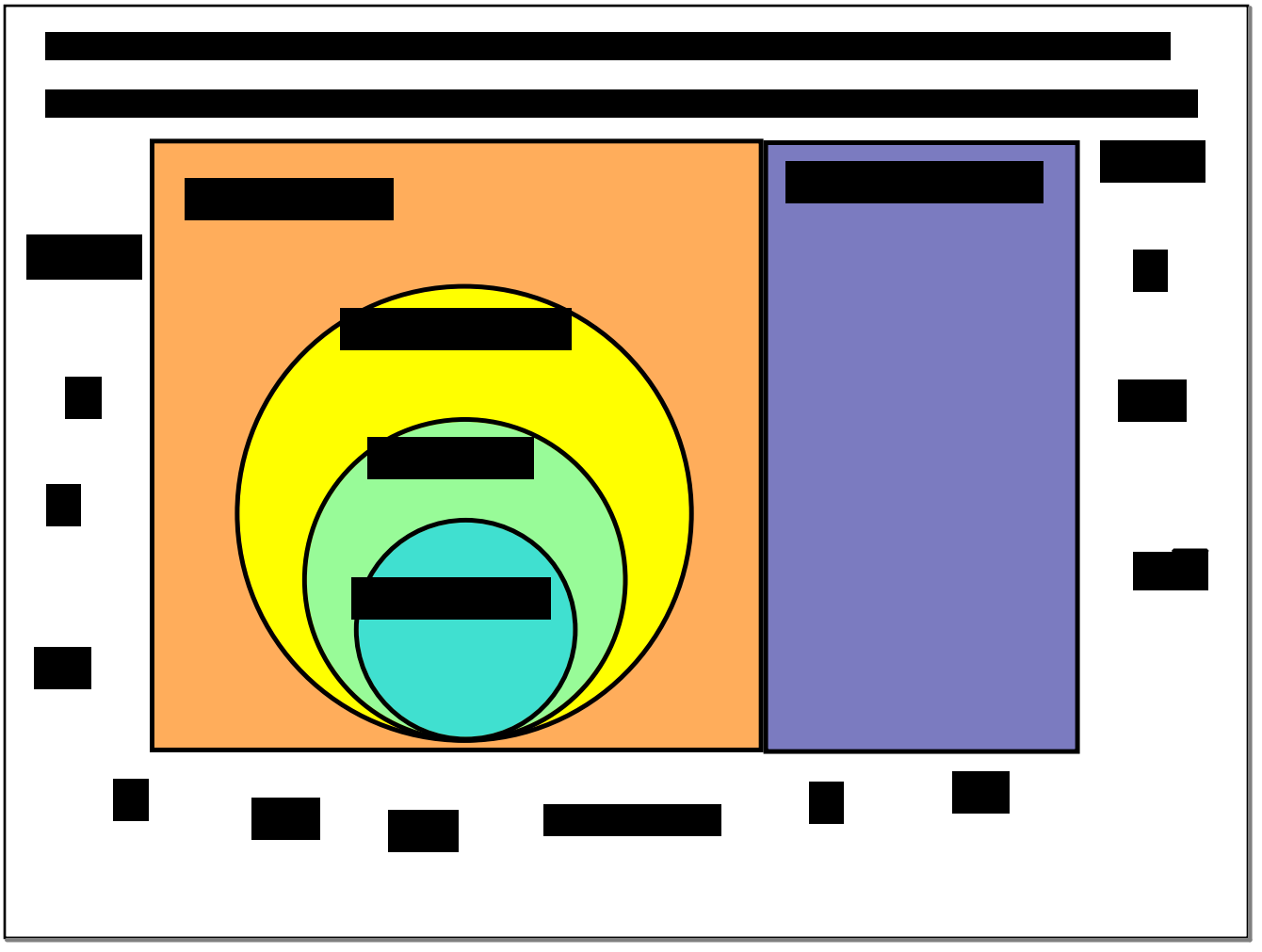

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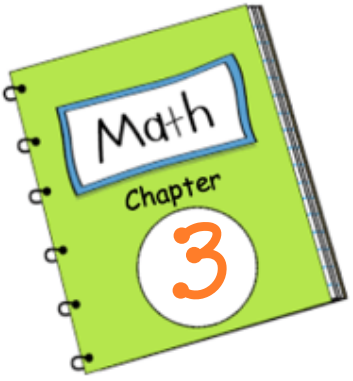

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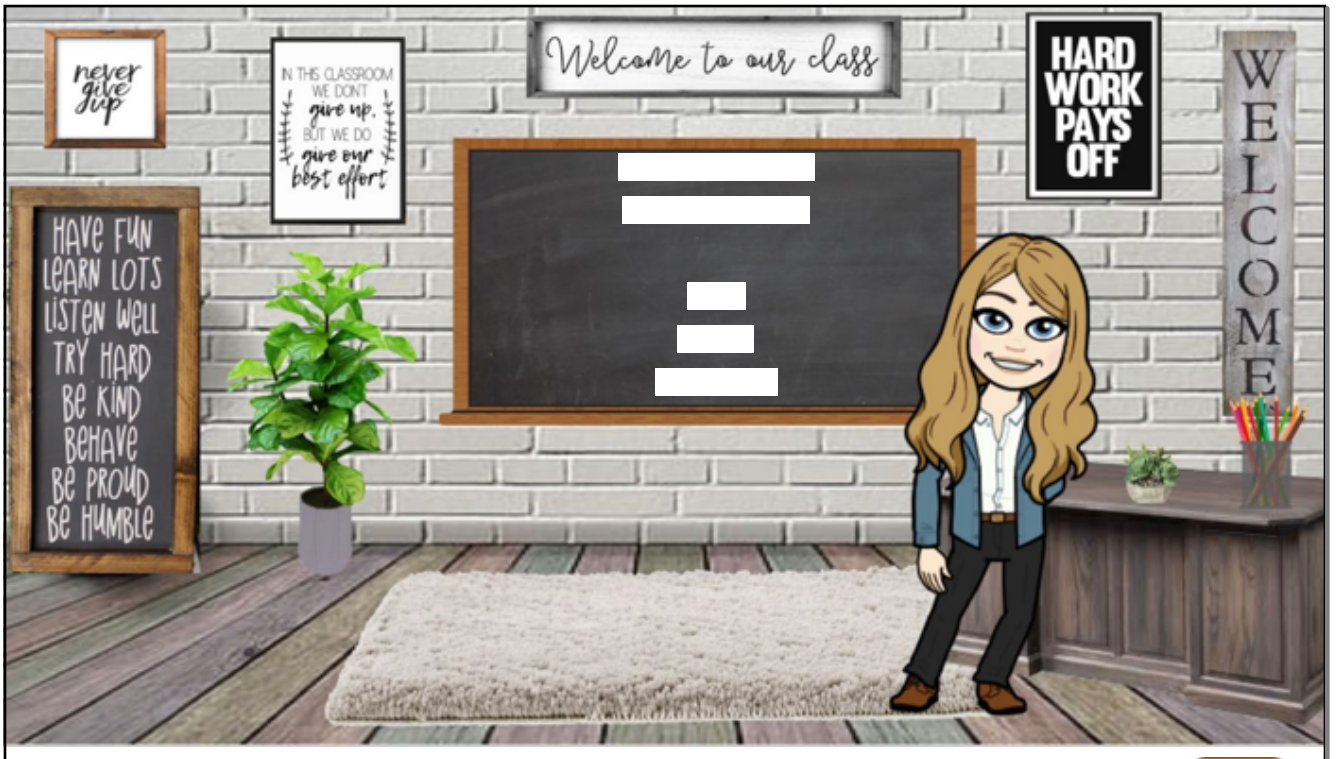

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① To multiply fractions, multiply across **numerator** and **denominator**.

② If there is a mixed number, first change it to an **improper fraction**.

③ **Simplify** your answer.

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① To divide fractions, **Multiply** by the **reciprocal**.

② Then multiply like above.

$\frac{2}{3} \cdot \left(-\frac{7}{3}\right) = -\frac{14}{12}$

$2\frac{1}{3} \cdot 2\frac{5}{7} =$

$\frac{7}{3} \cdot \frac{19}{7} = \frac{19}{3} = 6\frac{1}{3}$

Evaluate if $x = \frac{3}{8}$, $y = -2\frac{2}{9}$, $z = -\frac{7}{10}$.

$xy = \frac{3}{8} \cdot -\frac{20}{9} = -\frac{5}{6}$

$5x = \frac{5}{1} \cdot \frac{3}{8} = \frac{15}{8} = 1\frac{7}{8}$

$yz =$

Follow integer rules for negatives:
Same sign → positive answer
different signs → negative answer

$\frac{2}{3} \div \frac{7}{3} = \frac{2}{3} \times \frac{3}{7} = \frac{2}{7}$

$\frac{3}{4} \div \frac{5}{8} = \frac{3}{4} \times \frac{8}{5} = \frac{6}{5} = 1\frac{1}{5}$

Simplify.

$\frac{x^2}{4} \div \frac{y}{2} = \frac{x^2}{4} \times \frac{2}{y} = \frac{x^2}{2y}$

$\frac{7}{gh} \div \frac{5}{4fh} = \frac{7}{gh} \cdot \frac{4fh}{5} = \frac{28f}{5g}$

$\frac{b}{2d} \div \frac{2}{9c} =$