6th Grade
Nov 2, 2020

Please get ready for video notes.

Today we will:
-watch video notes
-do examples
-begin HW

HOMEWORK:

Skills Practice WS

ALEKS-60 minutes and 5 topics due by 11:59pm TONIGHT

✻ Change all to decimals. ✻
Order least to greatest.

$$\{-3\tfrac{1}{3}, \ 3.3, \ -3\tfrac{3}{4}, \ 3.5\}$$

-3.33... 3.3 -3.75. 3.5

$$3\overline{)1.0} \quad \begin{array}{r} 0.3 \\ -9 \\ \hline 1 \end{array}$$

$$4\overline{)3.00} \quad \begin{array}{r} .75 \\ -28 \\ \hline 26 \end{array}$$

$$\{-3\tfrac{3}{4}, \ -3\tfrac{1}{3}, \ 3.3, \ 3.5\}$$
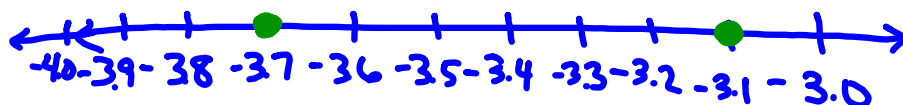
glue here

Comparing and Ordering Rational Numbers

Remember, a __rational number__ is any number that can be written as a **fraction**

> We will use <, >, or = to compare.
> We will order from least to greatest

We can:
1. use a __number line__,
2. use __least__ __common__ __denominator__, or
3. write the numbers in the __same__ __form__

$-3.1 \; \boxed{>} \; -3.7$

Number line: $-4.0 \; -3.9 \; -3.8 \; -3.7 \; -3.6 \; -3.5 \; -3.4 \; -3.3 \; -3.2 \; -3.1 \; -3.0$ (points at -3.7 and -3.1)

LEFT is LESS!

$\dfrac{3}{4} \; \boxed{>} \; \dfrac{2}{3}$ $\qquad$ $-2\dfrac{5}{6} \; \boxed{>} \; -2\dfrac{9}{10}$

$\dfrac{3}{4} \times \dfrac{3}{3} = \dfrac{9}{12}$ $\qquad$ $\dfrac{2}{3} \times \dfrac{4}{4} = \dfrac{8}{12}$ $\quad \Big| \quad$ $\dfrac{5}{6} \times \dfrac{5}{5} = \dfrac{25}{30}$ $\qquad$ $\dfrac{9}{10} \times \dfrac{3}{3} = \dfrac{27}{30}$

$-2\dfrac{25}{30} \; > \; -2\dfrac{27}{30}$

$-6.7 \; \boxed{=} \; -6\dfrac{7}{10}$ $\qquad$ $-\dfrac{5}{6} \; \boxed{>} \; -0.94$

$-6.7 \qquad\qquad -6.7$ $\qquad$ $-0.8\_ \qquad -0.9\_$

$2.4 \; \boxed{>} \; 2\dfrac{3}{20}$

$2\dfrac{4}{10} \times \dfrac{2}{2}$

$= 2\dfrac{8}{20}$ $\qquad\qquad 2\dfrac{3}{20}$

$6\overline{)5.0} \;\; 0.8$, $\dfrac{48}{2}$

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Lesson 5 Skills Practice

Compare and Order Rational Numbers

Fill in ⬤ with <, >, or = to make a true statement.

1. −3.71 ⬤ −3.7

2. 4.8 ⬤ − 2.5

3. $\frac{3}{5}$ ⬤ $-\frac{1}{5}$

4. $-\frac{2}{9}$ ⬤ $-\frac{5}{9}$

5. −8.11 ⬤ $-8\frac{8}{100}$

6. −15.26 ⬤ $-15\frac{13}{50}$

7. 9.79 ⬤ −9.8

8. $-\frac{5}{8}$ ⬤ $-\frac{5}{16}$

9. $-\frac{2}{3}$ ⬤ $-\frac{1}{8}$

10. $-6\frac{3}{7}$ ⬤ −6.2

11. $-\frac{9}{10}$ ⬤ $-1\frac{1}{10}$

12. $-4\frac{39}{50}$ ⬤ −4.78

Order the following numbers from least to greatest.

13. $\left\{4.2, \; -4\frac{1}{9}, \; -4.6, \; 4\frac{3}{8}\right\}$

14. $\left\{-7.\overline{3}, \; 7\frac{3}{4}, \; 7.23, \; -7\frac{2}{3}\right\}$

15. $\left\{9\frac{7}{8}, \; -9.7, \; 9.87, \; -9\frac{8}{9}\right\}$

16. $\left\{-5.42, \; 5\frac{5}{6}, \; 5.34, \; -5\frac{4}{5}\right\}$

17. **TRUCK PULL** Scores at a truck pull were based on the distance the truck stopped from the finish line. Order these scores from least to greatest:

$-5\frac{3}{4}, \; -7.2, \; 9, \text{and} \; 3\frac{1}{8}.$