Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly:
"Adding Fractions and Adding Decimals"

Questions from yesterday's homework

Homework

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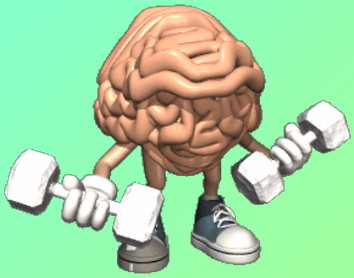
Questions:

8, 10cd, 12af, 16bf,



Warm Up

1) Identify wether the number is rational or irrational

$\frac{2}{3}$ | $1.\overline{66}$ | 1.234567..... | -2.25

2)Express each fraction as a decimal

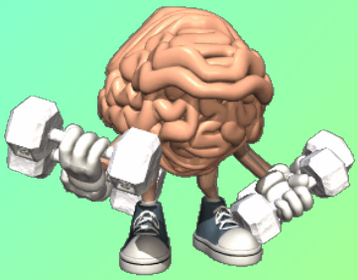
a) $\frac{4}{5}$ b) $\frac{9}{6}$ c) $\frac{3}{11}$

3) Find two rational numbers between...

0.25 0.26

(If you see fractions you must work with fractions)

$\frac{5}{8}$ $\frac{6}{8}$



Warm Up

1) Identify wether the number is rational or irrational

$\frac{2}{3}$	$1.\overline{66}$	1.234567.....	-2.25
Q	Q	$\overline{Q}$	Q

2)Express each fraction as a decimal

a) $\frac{4}{5}$ $= 0.8$

b) $\frac{9}{6}$ $= 1.5$

c) $\frac{3}{11}$ $= 0.\overline{27}$

3) Find two rational numbers between...

0.250 0.260

0.251

0.255

⋮

0.259

(If you see fractions you must work with fraction

$\frac{5}{8}$ $\frac{6}{8}$

×5 ×5

$\frac{25}{40}$ $\frac{30}{40}$

$\frac{26}{40}$ $\frac{27}{40}$

Which rational number is larger??

(Decimals may be used on this side.)

bigger $\frac{-12}{15}$ > $\frac{-13}{16}$

$-0.8\overline{0}$ -0.8125

Show your work!

(NO Decimals please!!.)

$\frac{2}{3}$ < $\frac{3}{4}$ bigger

x4 x3

$\frac{8}{12}$ < $\frac{9}{12}$

3.2 Adding Rational Numbers

Copy Down

If the signs are the **same**:

Keep the same sign, and ADD.

$$(-4)+(-2)=-6$$

(+) + (+) = +

If the signs are **different**:

Cover up the signs
Find the biggest number
Take the sign of the BIGGEST number,

$$(-8)+(2)=-6$$

Eight is bigger than 2, when you don't look at the negative sign.

$-5 + 12 =$ +

$6 + (-9) =$ −

$-11 + (-13) =$ −

$7 + 8 =$ +

We use the same rules with decimals:

1) $(-2.1) + (-1.7) =$ -3.8

2) $(-6.8) + 1.5 =$ -5.3

3) $(-7.1) + 12.3 =$ $+5.2$

If you use a calculator, make sure you know how to input negative numbers!

Copy Down

Adding Fractions

When adding fractions you [illegible] COMMON DENOMINATOR.

1) $\frac{-5}{8} + \frac{6}{8}$

$= \frac{1}{8}$

2) $\frac{-8}{7} + \frac{-4}{7}$

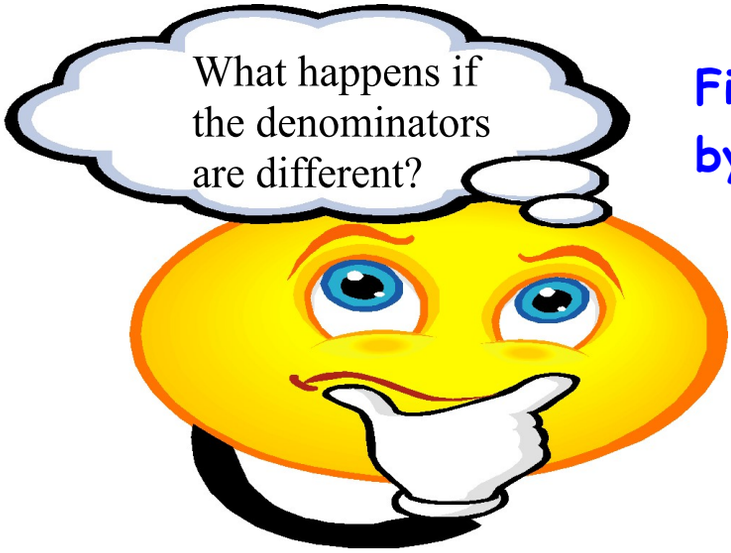
$= \frac{-12}{7}$

$-1\frac{5}{7}$

$$\frac{3}{5} + \frac{4}{-5}$$

$$\frac{3}{5} + \frac{-4}{5}$$

$$\frac{-1}{5}$$



Find a Common Denominator by determining the LCM.

L owest

C ommon

M ultiple

$$\frac{3}{4} + \frac{-5}{6}$$

Find the LCM first!

4, 8, 12, 16, 20, 24

6, 12, 18, 24, 36

$$= \frac{9}{12} + \frac{-10}{12}$$

(x3 on $\frac{3}{4}$, x2 on $\frac{-5}{6}$)

$$= \frac{-1}{12}$$

Class/Homework

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Questions 17ac, 21, 24ac,

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Don't just give answers copy down the addition statement (Not directions)

NO Number lines

8 (all) Leave in fractional form (no calculator)

9 (acf) Use Calculators