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"

Write $\frac{4}{5}$ as a decimal.

0.8

Warm Up

What is a rational number?

You must be specific about three things!

→ fraction

→ decimals that end repeat

State two rational numbers between -5.4 and -5.5

-5.40   -5.50

−5.48

−5.42
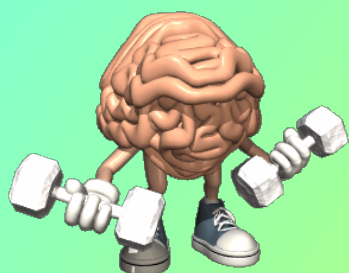
− 5.45

Express A as a mixed fraction.

$5\frac{8}{10}$

Write two equivalent fractions!

$\frac{-8}{9}$

$-\frac{8}{9}$

$\frac{8}{-9}$

2

1) Identify wether the number is rational or non-rational

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

Q   Q $\overline{Q}$ Q

2)Express each fraction as a decimal

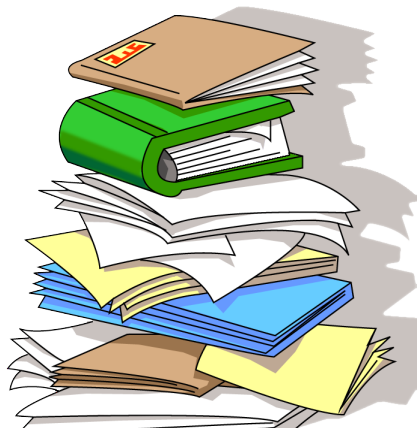a) $\frac{4}{5}$ b) $\frac{9}{6}$ c) $\frac{3}{11}$

0.8   1.5 $0.\overline{27}$

Questions from yesterday's homework

Homework

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Questions:
8ad, 10cd, 12af, 16bf, 17ac, 21, 24ac,

3.2 Adding Rational Numbers

Write each mixed number as an improper fraction:

1) $3\frac{3}{5} = \dfrac{18}{5}$

2) $-5\frac{5}{6} = \dfrac{-35}{6}$

3) Put the fractions in order from least to greatest   Show all work

$$-\frac{1}{2}, \; -\frac{4}{5}, \; -\frac{11}{15}, \; \frac{2}{32}, \; \frac{1}{20}$$

Addition of Integers

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.

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 need a COMMON DENOMINATOR:

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

$= \dfrac{1}{8}$

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

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

$$\frac{3}{4} + \frac{2}{3}$$

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

$$\frac{17}{12}$$

$$= 1\frac{5}{12}$$

Class/Homework

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

5 (bc) Use Calculators no # line needed
6 (all) Use Calculators no # line needed
7 (ac)   Leave in fractional form (no calculator)
8 (all) Leave in fractional form (no calculator)
9 (acf) Use Calculators