

Grade 9 Warm Up



Put the following fractions in order from least to greatest.

$$\frac{-11}{15}, \frac{-2}{7}, \frac{-21}{22}, \frac{-1}{5}, \frac{-1}{10}$$

$$-\frac{21}{32}, \frac{-2}{5}, \frac{-21}{10}, \frac{-1}{5}, \frac{-1}{10}$$



Grade 9 Warm Up



LCM 6/6,12,18,24,30 5 5,10,15,20,25,30

Determine each sum.

1)
$$\frac{-5}{6} \times \frac{5}{4} \left(\frac{-2}{5}\right) = 2$$
 $\frac{8}{3} \times \frac{4}{4} + \frac{5}{4} \times \frac{3}{3}$ 3) $-\frac{12}{3} + \left(-3\frac{1}{5}\right)$ $-\frac{25}{3} + \frac{-12}{30}$ $\frac{32}{12} + \frac{15}{12}$ $-\frac{5}{3} \times \frac{5}{3} + \left(-\frac{16}{5}\right) = 2$ $\frac{47}{12} - \frac{37}{12} - \frac{25}{15} + \left(-\frac{16}{15}\right) = \frac{73}{15} = -\frac{47}{15}$

b) On December 17th, the temperature was 2.1°C less than (colder than) that of December 18th. What was the temperature on the 17th?

4) On December 18th, the temperature in Miramichi was -21.6°C. By noon the next day, the temperature increased by 3.7°C.



a) What was the temperature at noon on December 19th?

b) On December 17th, the temperature was 2.1°C less than (colder than) that of December 18th. What was the temperature on the 17th?

at was the temperature on the
$$17^{\text{th}}$$
?
$$-21.6 - 2.1 = -23.7$$

Any Homework Questions?





11(acegi) (Without calculator)

13, 16, 17, 18, 19(a, e), 20(ae)

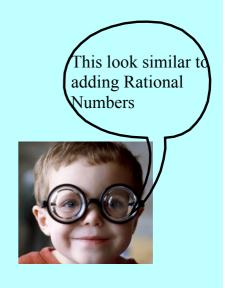
11. ()
$$-\frac{11}{4}$$
 $+$ $\left(-\frac{6}{5}\right)$ $+$ $\left(-\frac{6}{5}\right)$ $+$ $\frac{-34}{20}$ $+$ $\frac{-34}{20}$ $-\frac{79}{20}$ $-\frac{79}{20}$

Section 33 Subtracting Rational Numbers

When subtracting Rational Numbers you must have a ...



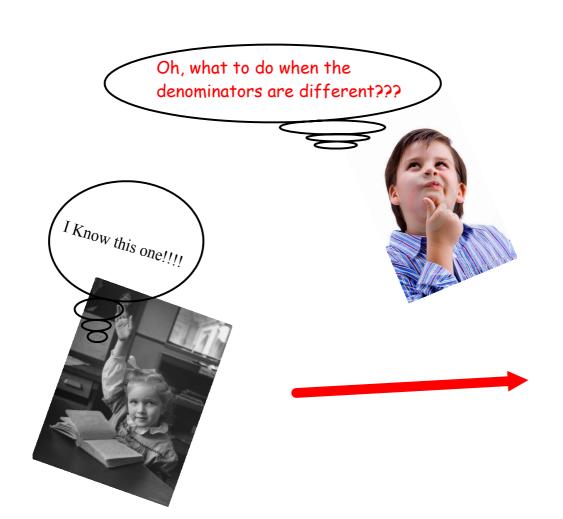
Ex)
$$\frac{13}{7} - \frac{4}{7} =$$
Same Denominators



You try ...

(Remember to write all solution in simplest form)

1)
$$\frac{21}{2} - \frac{24}{2}$$
 $\frac{-25}{13} - \frac{16}{13}$ $\frac{3}{4} - \frac{5}{4}$: $\frac{6}{4} = \frac{2}{4}$ $\frac{2}{4}$ $\frac{$





When denominators are different you have to find a "common denominator"



By determining the **LCM**

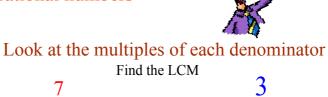
Lowest Common Multiple

(of the denominators)









You try...

HOMEWORK



1)
$$\frac{17}{12} - \frac{4}{9}$$

2)
$$2\frac{1}{5} - 5 + \frac{2}{3}$$

$$\frac{11}{5} - \frac{10}{2} + \frac{2}{3}$$

$$\frac{-2}{7} - \frac{5}{28}$$