



Grade 7 Warm Up



1) 3500×20
 $70\ 000$

2) $(-8) - (+5)$
 ↓ add ↓ opp
 $(-8) + (-5)$
 (-13)

3) $\$6.93 + \5.98
 $6.93 + 6 = 12.93$
 $- 2\text{cent}$

 $\$12.91$

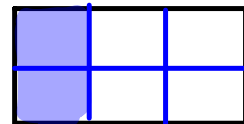
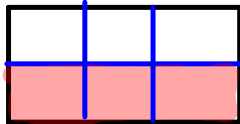
4) 3.5×4
 ↓ double ↓ half
 7×2
 (14)

5) 454×100
 45400

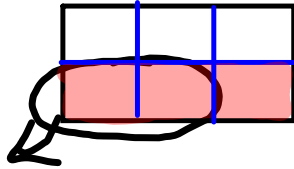
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7.

$$\frac{1}{2} - \frac{1}{3}$$

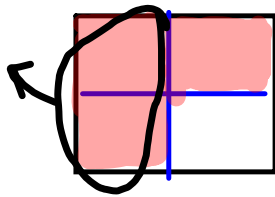


$$\frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$



8.

$$\frac{3}{4} - \frac{1}{2}$$



$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

9. No $\frac{2}{3}$ is less than $\frac{3}{4}$

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

$$\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$$

He need $\frac{1}{12}$ of a cup
of choc. chips.

$$10 a) \frac{2}{3} - \frac{\boxed{1}}{\boxed{3}} = \frac{1}{3}$$

$$b) \frac{\boxed{4}}{\boxed{5}} - \frac{1}{5} = \frac{3}{5}$$

$$c) \frac{\boxed{4}}{3} - \frac{2}{\boxed{4}} = \frac{1}{6}$$

$$\frac{\quad}{6} - \frac{\quad}{6} = \frac{1}{6}$$

$$\frac{8}{12} - \frac{6}{12} = \frac{2}{12}$$

$$\frac{4}{3} - \frac{2}{4} = \frac{2}{12}$$

$$11. \quad \frac{3}{4} - \frac{1}{2}$$

a) $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$

She only has $\frac{1}{8}$ of a tank left,
so she used more than $\frac{1}{2}$ a tank.

b) $\frac{3}{4} - \frac{1}{8}$

$$\frac{6}{8} - \frac{1}{8} = \frac{5}{8} \text{ of a tank use}$$

$$\frac{5}{8} - \frac{4}{8} = \frac{1}{8} \text{ She used } \frac{1}{8} \text{ more than } \frac{1}{2} \text{ a tank.}$$

$$12. \text{ a) } \frac{5}{6} - \frac{2}{3}$$

less than $\frac{1}{2}$ ($\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$)

$$\text{b) } \frac{5}{6} - \frac{1}{2}$$

less than $\frac{1}{2}$ since $1 - \frac{1}{2} = \frac{1}{2}$
and $\frac{5}{6}$ is less than 1.

$$\text{c) } \frac{5}{6} - \frac{1}{6}$$

more than $\frac{1}{2}$, $\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$ which is
greater than $\frac{1}{2}$.

Sarah drank $\frac{7}{10}$ of a glass of chocolate milk.

Hope drank $\frac{4}{5}$ of a glass.

a) Who drank more chocolate milk? **Hope**

b) How much more did she drink? Explain how you know.

$$\begin{array}{c} \text{Sarah} \\ \frac{7}{10} \\ \hline \end{array}$$

$$\begin{array}{c} \text{Hope} \\ \frac{4 \times 2}{5 \times 2} = \frac{8}{10} \\ \hline \end{array}$$

Hope - Sarah

$$b) \frac{8}{10} - \frac{7}{10} = \frac{1}{10} \text{ More}$$

Subtracting Fractions RULES

- Find a common denominator
- Subtract the numerators (*top*)

Subtract.

- Find a common denominator

- Subtract the numerators (Top)

$$\text{a) } \frac{4}{3} - \frac{1}{3}$$

Handwritten work for problem a) shows the conversion of $\frac{4}{3}$ to $\frac{12}{15}$ by multiplying numerator and denominator by 5 (indicated by a green arrow and 3×5 above the 4 and 3). Similarly, $\frac{1}{3}$ is converted to $\frac{5}{15}$ by multiplying numerator and denominator by 5 (indicated by a purple arrow and 1×5 above the 1 and 3). The subtraction is then performed: $\frac{12}{15} - \frac{5}{15}$.

$$= \frac{7}{15}$$

$$\text{b) } \frac{5}{4} - \frac{1}{5}$$

Handwritten work for problem b) shows the conversion of $\frac{5}{4}$ to $\frac{25}{20}$ by multiplying numerator and denominator by 5 (indicated by a green arrow and 5×5 above the 5 and 4). Similarly, $\frac{1}{5}$ is converted to $\frac{4}{20}$ by multiplying numerator and denominator by 4 (indicated by a blue arrow and 1×4 above the 1 and 5). The subtraction is then performed: $\frac{25}{20} - \frac{4}{20}$.

$$= \frac{21}{20}$$

$$= 1\frac{1}{20}$$

Class/Homework

Don't estimate use rule for Common denominator

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Test April 5 on Adding and subtracting fractions

1 ab

2 abc

3 ab

4 abc

5

6 ab

1 to # ~~6~~ and # ~~5~~

9