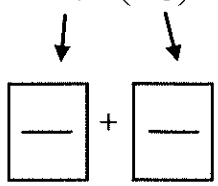
Lesson 17T ~ Adding Rational Numbers

Name_____ Period_____ Date_____

Find each sum. Write your answer in simplest form.

1. $-\frac{3}{4}+\left(-\frac{1}{8}\right)$



a. Rewrite fractions with a common denominator. Move negatives to numerators.

b. Add the numerators using integer operation rules or a number line.

c. Place your answer from **part b** over the common denominator.

$$-\frac{3}{4}+\left(-\frac{1}{8}\right)=\boxed{\quad}$$

2. $-\frac{2}{3}+\frac{2}{9}$

3. $-\frac{1}{3}+\frac{1}{4}$

4. $-2\frac{1}{2}+(-4\frac{1}{4})$

For mixed numbers, remember to turn into an improper fraction before finding a common denominator.

5. $4\frac{1}{3}+(-3\frac{1}{2})$

Find each sum.

6. $\begin{array}{r} 4.4 \\ +2.8 \\ \hline \end{array}$

7. $\begin{array}{r} 3.2 \\ -1.1 \\ \hline \end{array}$

8. $-0.2+(-3.3)$

a. Shade in the sign of the answer. Positive | Negative

b. Shade in the operation you should use. Add | Subtract

c. Rewrite vertically and solve.

$-0.2+(-3.3) =$ ☐

9. $5.5+(-3.3)$

10. $-0.9+0.4$

11. $-4.66+2.34$

12. $3.6+(-5.8)$

13. Peter started running and lost 3.6 kilograms during the first month. He took a two week break and gained back 1.2 kilograms.

a. One of the decimals should be written as a negative number. Which one is it and why?

b. Find the sum of the two numbers to determine the total change in Peter's weight.