

Key.

Adding and Subtracting Fractions Homework

$$1. -4\frac{3}{5} - 2\frac{1}{2} =$$

$\swarrow \times 2$ $\searrow \times 5$

$$-4\frac{6}{10} + -2\frac{5}{10} = -7\frac{1}{10}$$

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

$\swarrow \times 2$ $\searrow \times 5$

$$-4\frac{6}{10} + 2\frac{5}{10} = -2\frac{1}{10}$$

$$3. 3\frac{1}{8} + -5\frac{2}{5} =$$

$\swarrow \times 5$ $\searrow \times 8$

$$3\frac{5}{40} + -5\frac{16}{40} = -2\frac{11}{40}$$

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

$\swarrow \times 3$ $\searrow \times 2$

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



$$5. -3\frac{1}{8} + 5\frac{2}{5} =$$

$\swarrow \times 5$ $\searrow \times 8$

$$-3\frac{5}{40} + 5\frac{16}{40} = 2\frac{11}{40}$$

$$6. -\frac{3}{13} + (+3\frac{7}{10}) =$$

$\swarrow \times 10$ $\searrow \times 13$

$$-\frac{30}{130} + 3\frac{91}{130} = 3\frac{61}{130}$$

(turn over)

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7. $-\frac{4}{9} + (+\frac{1}{3}) + \frac{1}{6} =$

$$\begin{array}{ccc} \downarrow \times 4 & \downarrow \times 12 & \downarrow \times 6 \\ -\frac{16}{36} & + \frac{12}{36} & + \frac{6}{36} = \end{array}$$

$$-\frac{4}{36} + \frac{6}{36} = \frac{2}{36} = \frac{1}{18}$$

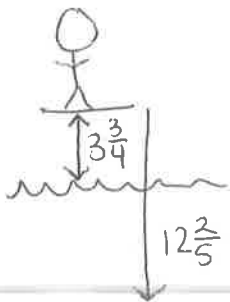
8. $-3\frac{1}{8} + 5\frac{2}{5} + (-1\frac{9}{10}) =$

$$\begin{array}{ccc} \downarrow \times 5 & \downarrow \times 8 & \downarrow \times 4 \\ -3\frac{5}{40} & + 5\frac{16}{40} & + (-1\frac{36}{40}) \end{array}$$

$$-8\frac{21}{40} + -1\frac{36}{40} = -9\frac{57}{40}$$

$$-10\frac{17}{40}$$

9. Jim stands on a dock that is $3\frac{3}{4}$ feet above the water. He dives down $12\frac{2}{5}$ feet below the dock. What is Jim's vertical position relative to the lake surface? (Write an expression to represent this situation.)



$$3\frac{3}{4} - 12\frac{2}{5}$$

$$3\frac{15}{20} + -12\frac{8}{20}$$

$$-8\frac{13}{20} \text{ ft}$$

10. Cecilia records the weight change of her cat over a period of time. After the first week, the cat lost $\frac{5}{16}$ pounds. After the second week, the cat gained $\frac{3}{8}$ pound. What is the total change in weight of the cat. (Write an expression to represent this situation)

1st week = $-\frac{5}{16}$

2nd week = $+\frac{3}{8}$

$$-\frac{5}{16} + \frac{3}{8}$$

$$-\frac{5}{16} + \frac{6}{16}$$

$$+\frac{1}{16} \text{ pounds}$$

11. A student solves the problem:

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

And gets an answer of 1. What error(s) do you think the student made?

$$-1\frac{12}{20} + \frac{15}{20}$$

$$-1\frac{3}{20} + \frac{3}{20} = (-1)$$

no equivalent fraction
+ forget to carry sign.