

Pre 2.4a

Fraction Assessment1

Arrange the numbers in the boxes to make improper fractions which are equivalent to the mixed number. Use the calculator to check

$$1) \quad 0, 2, 8, 8 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 4 \text{ and } 2/5$$

$$2) \quad 0, 1, 3, 7 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 7 \text{ and } 3/10$$

$$3) \quad 0, 1, 6, 9 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 5 \text{ and } 5/8$$

$$4) \quad 0, 2, 2, 6 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 3 \text{ and } 1/10$$

$$5) \quad 1, 2, 6, 9 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 5 \text{ and } 3/4$$

$$6) \quad 2, 4, 4, 5 \quad \frac{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}{\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}}$$
$$= 2 \text{ and } 1/4$$

Show all work and thinking below.

7) $3/8 + 5/6 = \underline{\hspace{2cm}}$

8) $(2 \text{ and } 2/3) - (1 \text{ and } 3/4) = \underline{\hspace{2cm}}$

- 8) A full tank of gas holds 17 gallons. The fuel gauge reads $1/4$ full. About how many gallons are left? (If you get 20 miles per gallon, how much farther can you drive? Estimate and explain your estimate.

- 9) On a national assessment, 13-year-olds were given the following test item: Estimate the answer to $12/13 + 7/8$. Only 24% of the students answered correctly. Select the correct answer. Explain your answer and why so many students chose the other three answers.
a) 1 b) 2 c) 19 d) 21

- 10) In Connie's class $6/25$ of the students have three or more syllables in their first names, $3/5$ have two syllables, and the rest have one syllable.

Compare the groups. Are there more or less students with three or more syllables than there are students with two syllables in their first names? Explain.

How do you know if there are many or few students with one syllable in their first name?

- 11) Stock on the stock market rose $7/128$ of a point on Monday, $6/31$ on Tuesday, 1 and $7/16$ on Wednesday, 1 and $7/8$ on Thursday, and 1 and $35/125$ points on Friday. About how many points did the price of this stock increase during the week? Show your estimation strategies below.