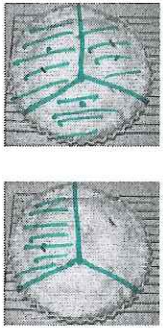


Mixed Numbers

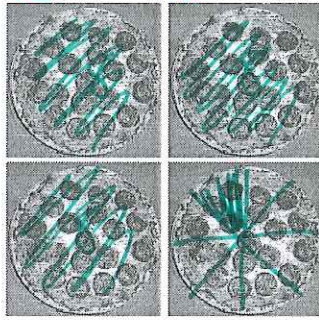
Name Solutions

Draw lines if needed and shade the figure to model the mixed number. Then write the equivalent improper fraction.

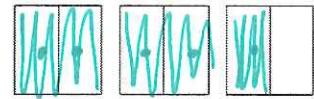
1.  $1\frac{1}{3} = \frac{4}{3}$



2.  $3\frac{1}{8} = \frac{25}{8}$

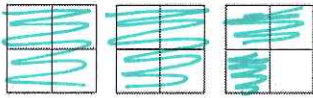


3.  $2\frac{1}{2} = \frac{5}{2}$

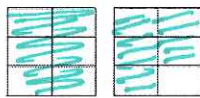


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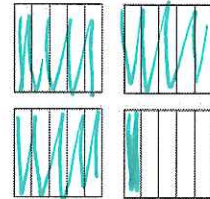
4.  $2\frac{3}{4} = \frac{11}{4}$



5.  $1\frac{5}{6} = \frac{11}{6}$



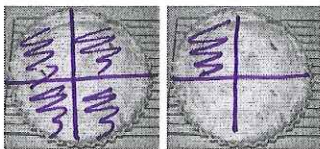
6.  $3\frac{1}{5} = \frac{16}{5}$



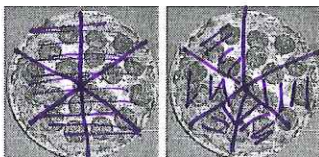
Summary: To convert a mixed number to an improper fraction, multiply the whole number part by the denominator and then add the numerator. Write this number as the new numerator and keep the same denominator.

Draw lines and shade the figure to model the improper fraction. Then write the improper fraction as a mixed number.

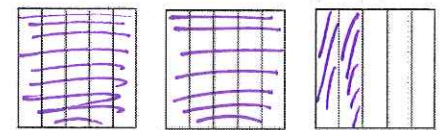
7.  $\frac{5}{4} = 1\frac{1}{4}$



8.  $\frac{11}{6} = 1\frac{5}{6}$



9.  $\frac{12}{5} = 2\frac{2}{5}$



$5 \overline{) 12} \begin{array}{r} 2 \\ -10 \\ \hline 2 \end{array} \frac{2}{5}$

Summary: To convert an improper fraction to a mixed number, divide the numerator by the denominator to get the whole number part. Write the remainder as the numerator of the fractional part and keep the same denominator.

Convert the mixed number to an improper fraction, then perform the indicated operation. Write your answer both as an improper fraction and as a mixed number.

10.  $1\frac{2}{5} + \frac{4}{5}$  *← change to improper*

$$\frac{7}{5} + \frac{4}{5} = \frac{11}{5}$$

$$= 2\frac{1}{5}$$

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

$$\frac{2 \cdot 2}{3 \cdot 2} - \frac{9 \cdot 3}{2 \cdot 3}$$

$$= \frac{4}{6} - \frac{27}{6}$$

$$= \frac{-23}{6}$$

$$= -3\frac{5}{6}$$

$$\begin{array}{r} 3 \\ 6 \overline{) 23} \\ \underline{-18} \\ 5 \end{array}$$

12.  $-2\frac{1}{3} \cdot \frac{4}{5}$  *no LCD*

$$-\frac{7}{3} \cdot \frac{4}{5} = \frac{-28}{15}$$

$$= -1\frac{13}{15}$$

13.  $2\frac{1}{4} \div \frac{5}{6}$

$$= \frac{9}{4} \div \frac{5}{6}$$

$$= \frac{9}{4} \cdot \frac{6^3}{5}$$

$$= \frac{27}{10}$$

$$= 2\frac{7}{10}$$