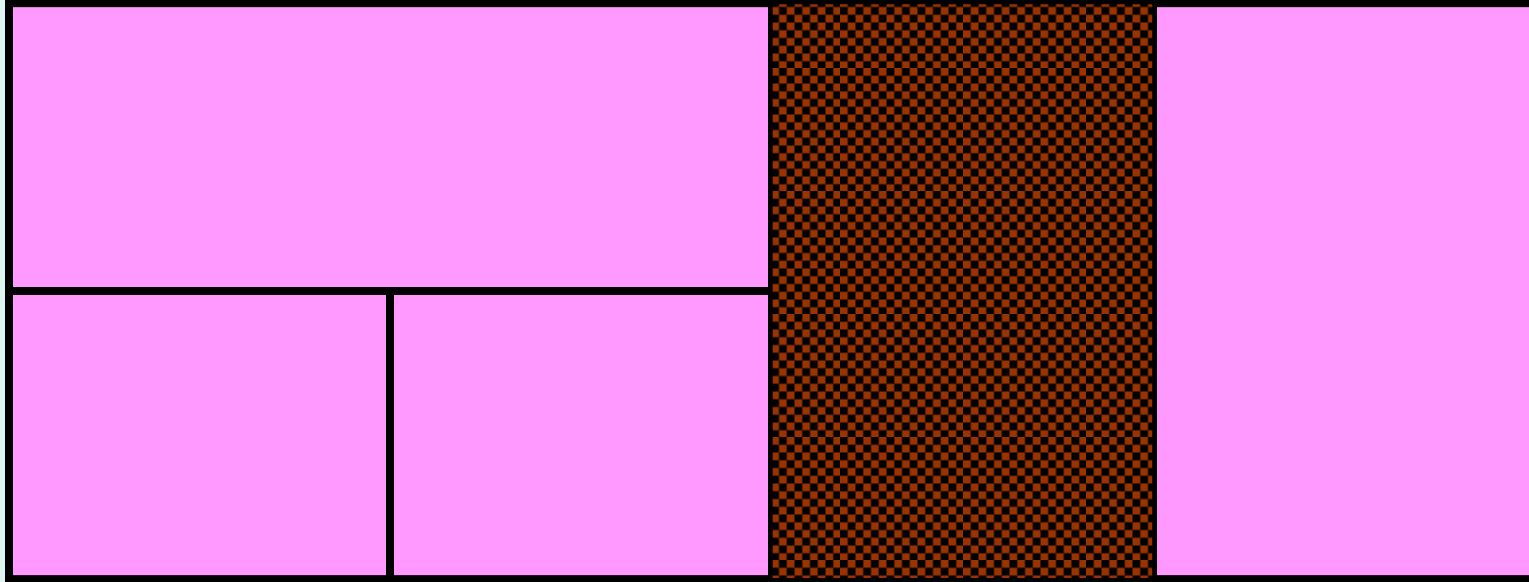


Fraction Follies



by D. Fisher

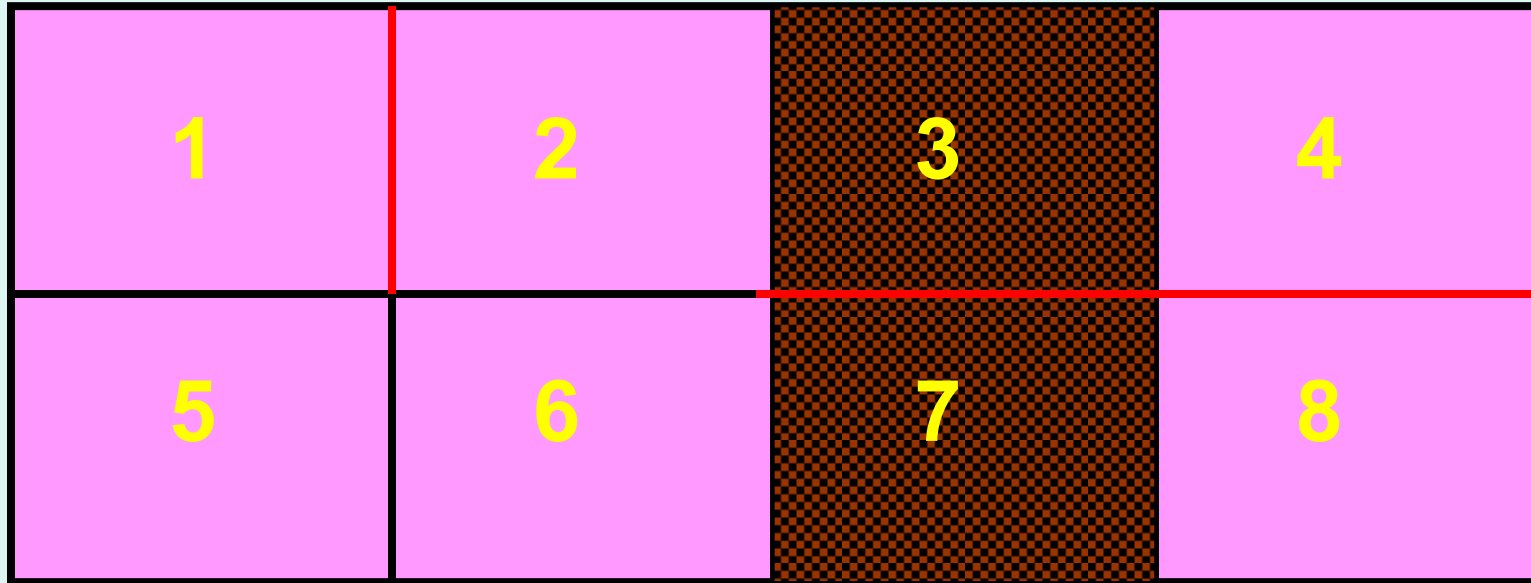
1. a. What fraction is shaded?



$\frac{1}{5}$

b. Why is one fifth wrong?

1. a. What fraction is shaded?



$$\frac{1}{4}$$

c. Why is one fourth right?

$$\frac{2}{8} = \frac{1}{4}$$

2. a. Reduce the fraction $\frac{8}{12}$ to lowest terms.



$$1 \frac{4}{12}$$



b. Why is one and four twelfths wrong?

2. a. Reduce the fraction 8/12 to lowest terms.



$$\frac{4}{6}$$

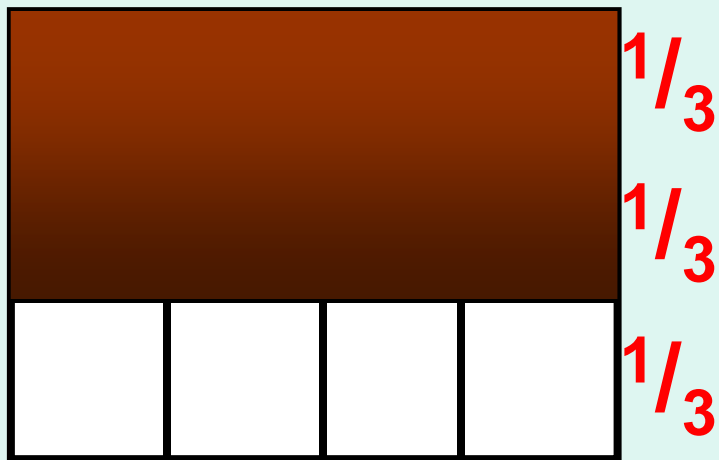


c. Why is four sixths wrong?

2. a. Reduce the fraction $8/12$ to lowest terms.



$$\frac{2}{3}$$



d. Why is two thirds correct?

$$\frac{8}{12} = \frac{8 \div 4}{12 \div 4} = \frac{2}{3}$$

3. a. Multiply $\frac{2}{3}$ by $\frac{4}{7}$.

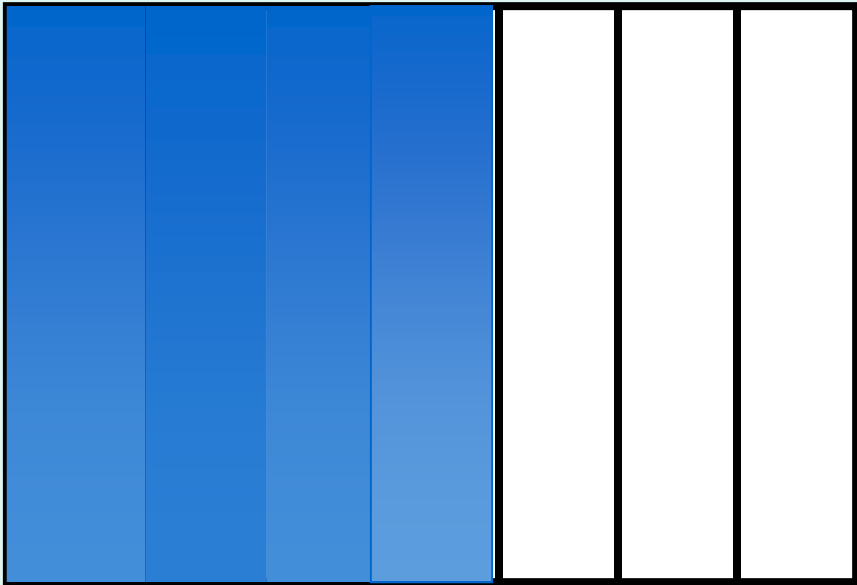


$$\frac{12}{14}$$



b. Why is twelve fourteenths wrong?

3. a. Multiply $\frac{2}{3}$ times $\frac{4}{7}$.

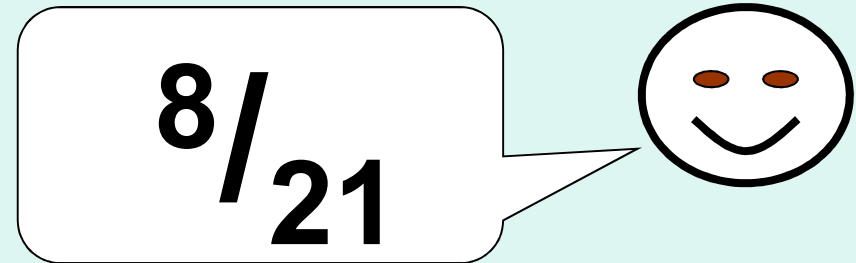
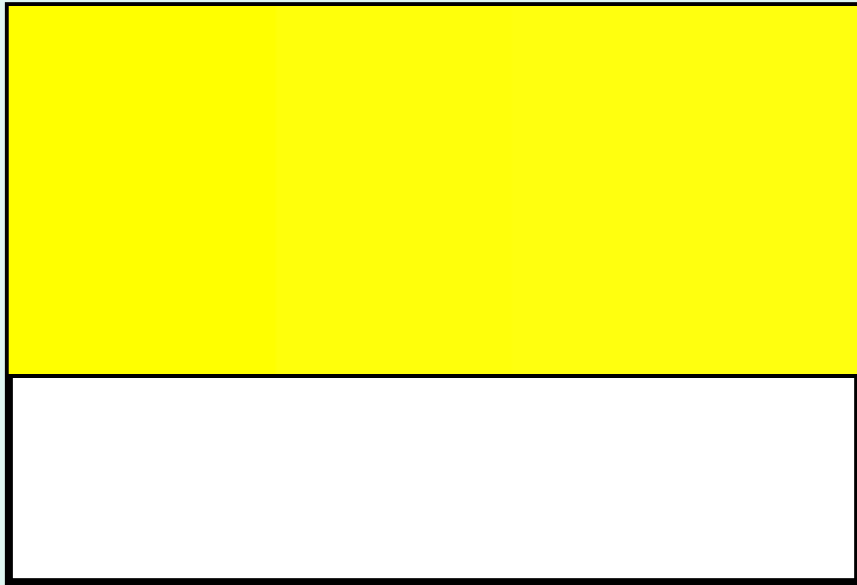


$$\frac{8}{21}$$



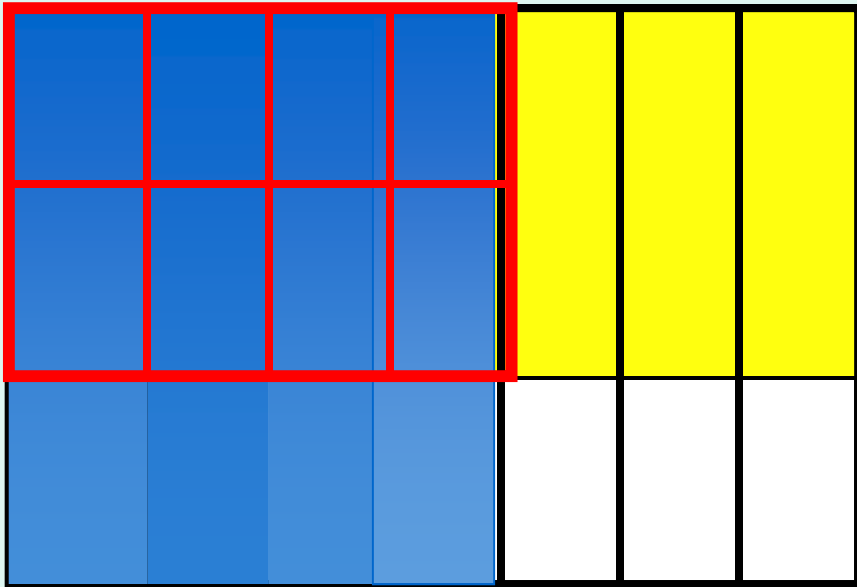
**c. Why is eight
twenty-firsts right?**

3. a. Multiply $\frac{2}{3}$ times $\frac{4}{7}$.



**c. Why is eight
twenty-firsts right?**

3. a. Multiply $\frac{2}{3}$ times $\frac{4}{7}$.



$$\frac{8}{21}$$



**c. Why is eight
twenty-firsts right?**

$$\frac{2}{3} \times \frac{4}{7} = \frac{2 \times 4}{3 \times 7} = \frac{8}{21}$$

4. a. Divide $\frac{2}{7}$ by $\frac{3}{5}$.



$$\frac{6}{35}$$



b. Why is six thirty-fifths wrong?

4. a. Divide $\frac{2}{7}$ by $\frac{3}{5}$.

$$\frac{10}{21}$$



c. Why is ten twenty-firsts right?

$$\frac{2}{7} \div \frac{3}{5} = \frac{2}{7} \times \frac{5}{3} = \frac{2 \times 5}{7 \times 3} = \frac{10}{21}$$

5. a. Change $4 \frac{2}{5}$ to an improper fraction.



$$42/5$$



b. Why is forty-two fifths incorrect?

5. a. Make $4 \frac{2}{5}$ an improper fraction.

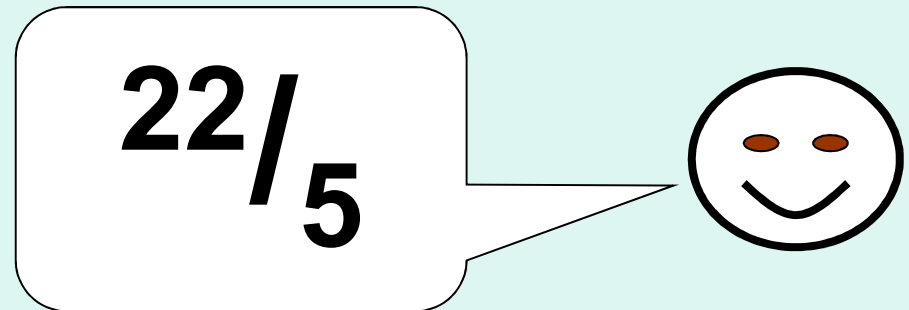
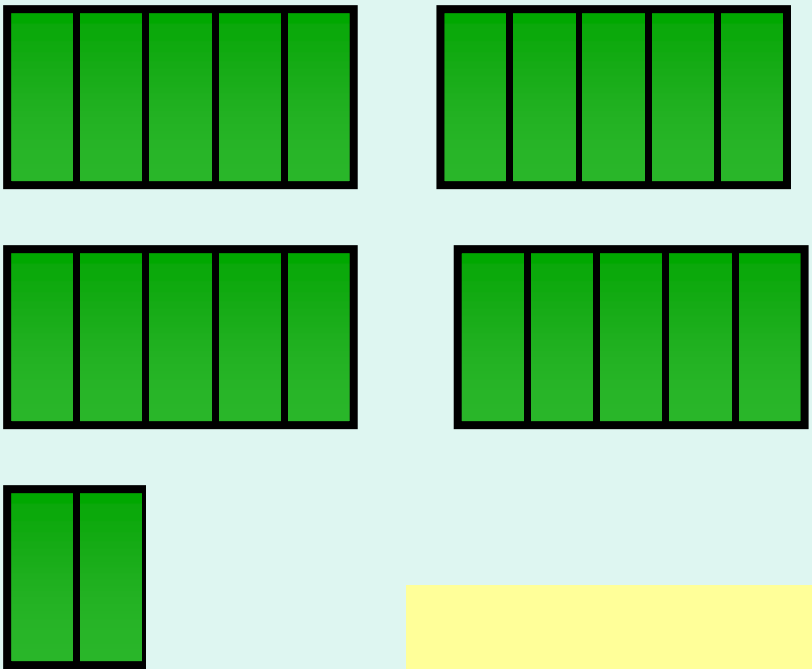


$$\frac{13}{5}$$



c. Why is thirteen fifths wrong?

5. a. Rewrite $4 \frac{2}{5}$ as an improper fraction.



d. Why is twenty-two fifths right?

$$4 \frac{2}{5} = \frac{4 \times 5 + 2}{5} = \frac{22}{5}$$

6. a. Add $\frac{1}{2}$ plus $\frac{2}{5}$.



$$\frac{3}{7}$$

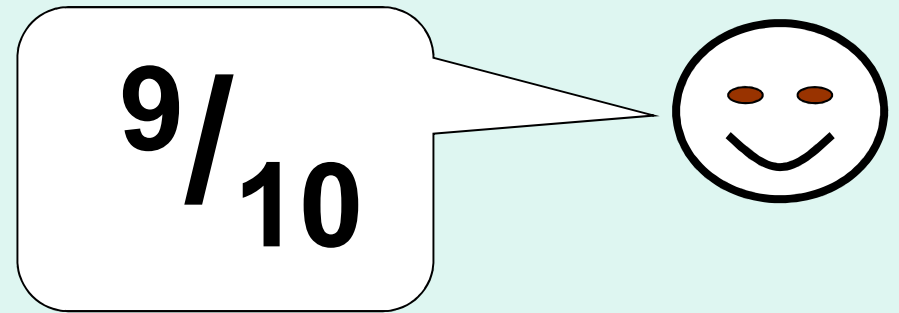


b. Why is three sevenths not right?

6. a. What is $\frac{1}{2}$ plus $\frac{2}{5}$?

$$\begin{array}{r} \frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10} \\ + \frac{2}{5} = \frac{2 \times 2}{5 \times 2} = \frac{4}{10} \\ \hline \end{array}$$

$\frac{9}{10}$



c. Why is nine tenths correct?

7. a. Multiply $1 \frac{1}{2}$ by $2 \frac{3}{5}$.



$$2 \frac{3}{10}$$



b. Why is two and three tenths incorrect?

7. a. Multiply $1 \frac{1}{2}$ times $2 \frac{3}{5}$.

$3 \frac{9}{10}$



c. Why is three and nine tenths correct?

$$1 \frac{1}{2} \times 2 \frac{3}{5} = \frac{3}{2} \times \frac{13}{5} = \frac{3 \times 13}{2 \times 5} = \frac{39}{10} = 3 \frac{9}{10}$$

Don't have any

Fraction Follies!

