5.1 Using Models to Add Fractions

Quick Review

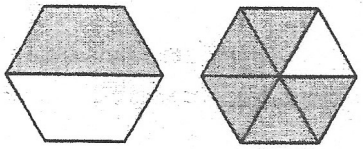
At Home
At School

Here is one way to add $\frac{1}{2}$ and $\frac{5}{6}$.

Use Pattern Blocks.

The yellow hexagon represents one whole.

➤ Model $\frac{1}{2}$ and $\frac{5}{6}$.



$\frac{1}{2}$ $\frac{5}{6}$

➤ Take 3 sixths from $\frac{5}{6}$.

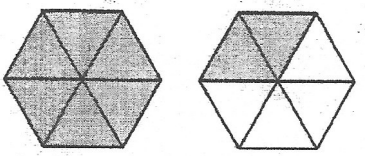
Put $\frac{3}{6}$ with the $\frac{1}{2}$ to make 1 whole.

That leaves 2 sixths.

1 whole and 2 sixths equals 1 and 2 sixths, or 1 and 1 third.

So, $\frac{1}{2} + \frac{5}{6} = 1\frac{2}{6}$

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

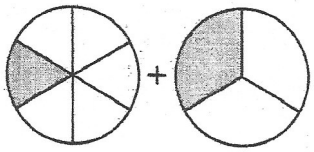


1 whole $\frac{2}{6}$

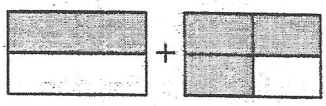
Practice

1. Write an addition equation for the shaded part of each picture.

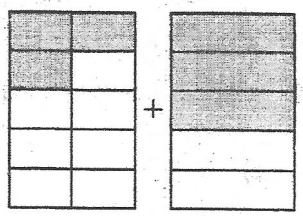
a)



b)



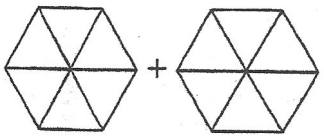
c)



_____ _____ _____

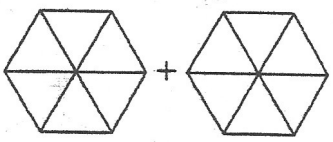
2. Colour the Pattern Blocks to find each sum.

a)



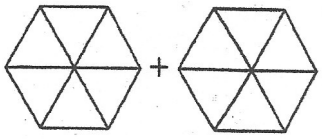
$\frac{2}{3} + \frac{1}{6} =$ _____

b)



$\frac{1}{2} + \frac{1}{3} =$ _____

c)



$\frac{5}{6} + \frac{1}{3} =$ _____

3. Add.

a) $\frac{4}{5} + \frac{1}{5} =$ _____

b) $\frac{1}{4} + \frac{2}{4} =$ _____

c) $\frac{1}{6} + \frac{4}{6} =$ _____

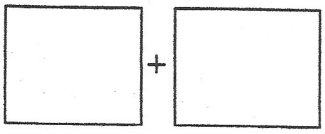
d) $\frac{3}{4} + \frac{3}{4} =$ _____

e) $\frac{3}{5} + \frac{4}{5} =$ _____

f) $\frac{3}{10} + \frac{6}{10} =$ _____

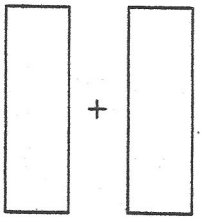
4. Divide and colour the shapes to find each sum.

a)



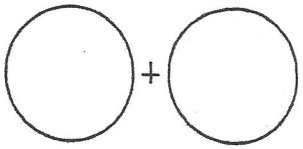
$\frac{1}{2} + \frac{1}{4} =$ _____

b)



$\frac{1}{3} + \frac{3}{6} =$ _____

c)



$\frac{3}{4} + \frac{1}{2} =$ _____

5. Draw a diagram to find each sum.

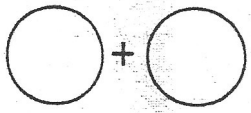
a) $\frac{1}{4} + \frac{5}{8} =$ _____

b) $\frac{1}{2} + \frac{1}{4} =$ _____

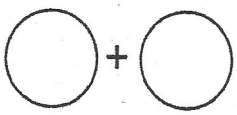
c) $\frac{1}{3} + \frac{5}{6} =$ _____

6. Divide and colour the circles to find each sum.

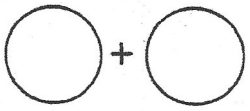
a) $\frac{1}{2} + \frac{2}{4} =$ __



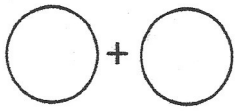
b) $\frac{1}{2} + \frac{1}{8} =$ __



c) $\frac{1}{4} + \frac{1}{8} =$ __



d) $\frac{3}{4} + \frac{1}{8} =$ __



7. Draw pictures to show if each sum is greater than or less than 1.

a) $\frac{3}{4} + \frac{2}{4} =$ ____

b) $\frac{1}{2} + \frac{1}{2} =$ ____

c) $\frac{3}{8} + \frac{7}{8} =$ ____

d) $\frac{2}{5} + \frac{2}{5} =$ ____

8. During his first training session, Milo walked for 30 min and ran for 20 min.

a) How many minutes did Milo train the first day? _____

b) Use fractions of an hour.

Write an addition equation that represents Milo's training session. _____

9. Find as many pairs of fractions as you can that have a sum of 1.