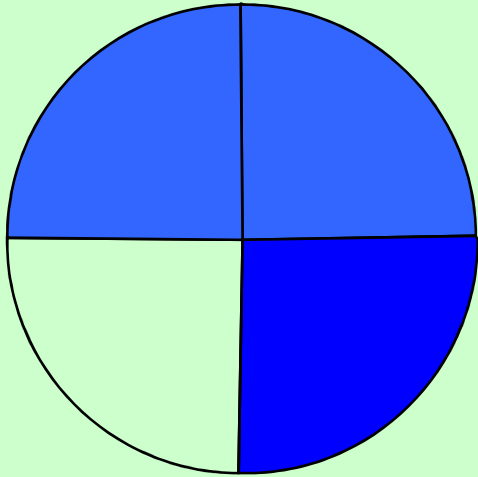
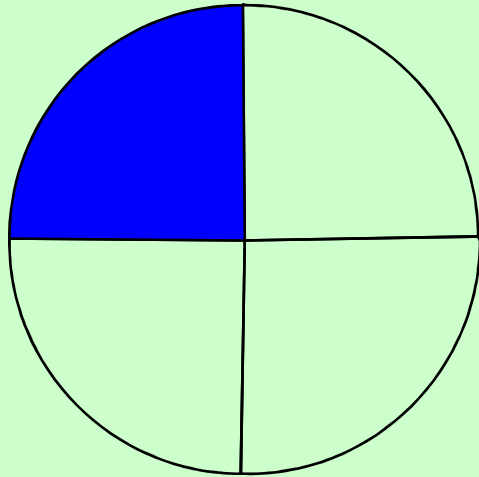
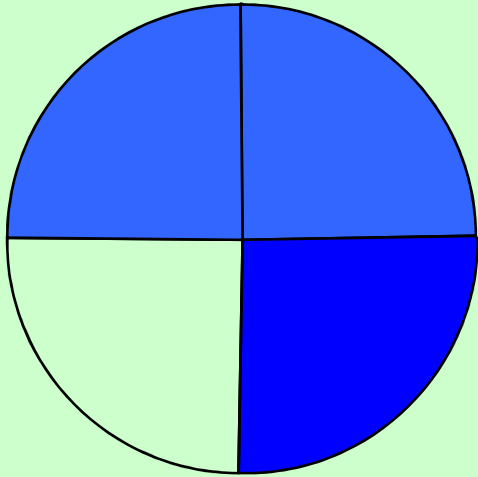


Adding Fractions

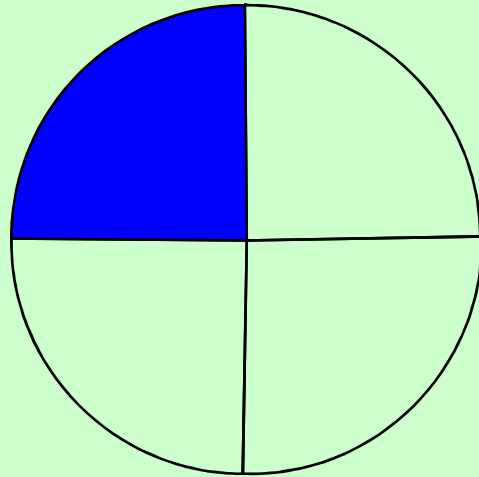


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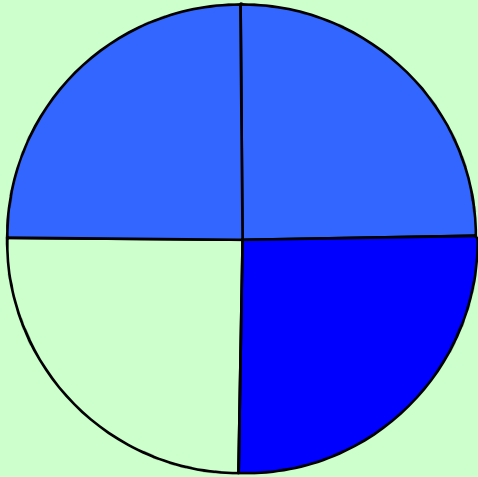




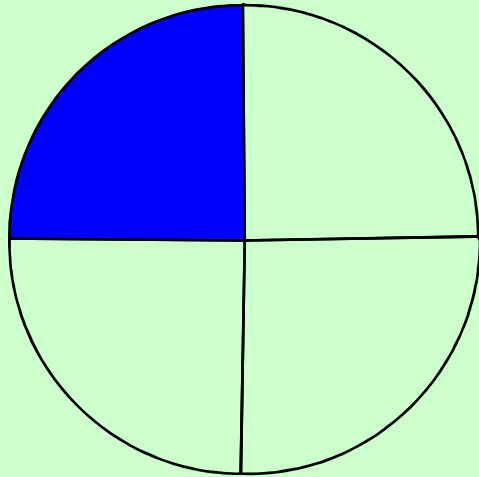
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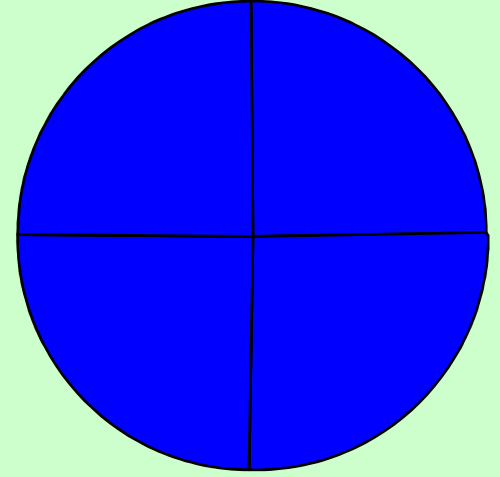
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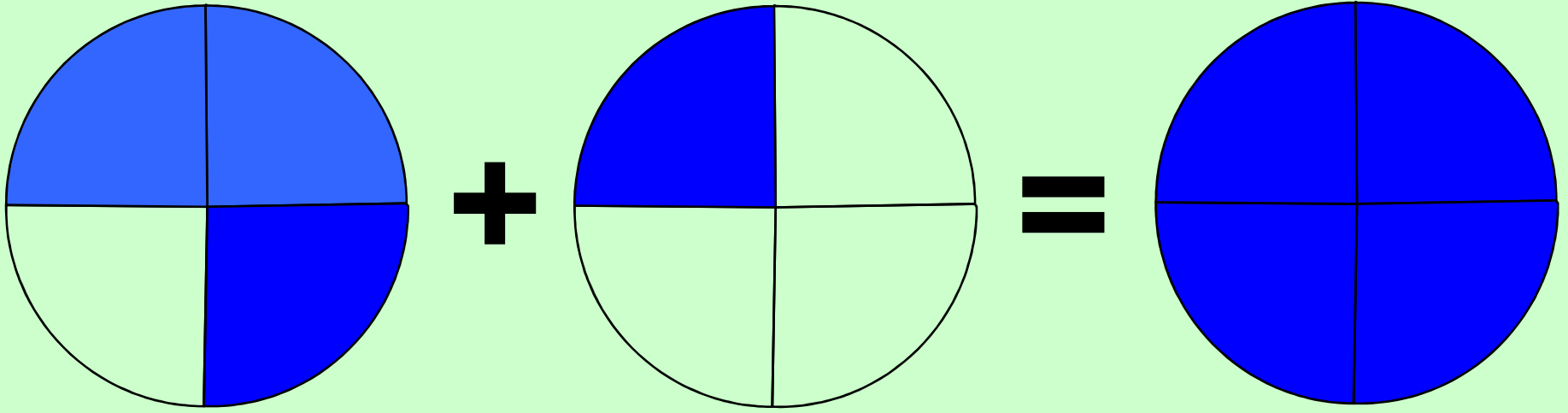


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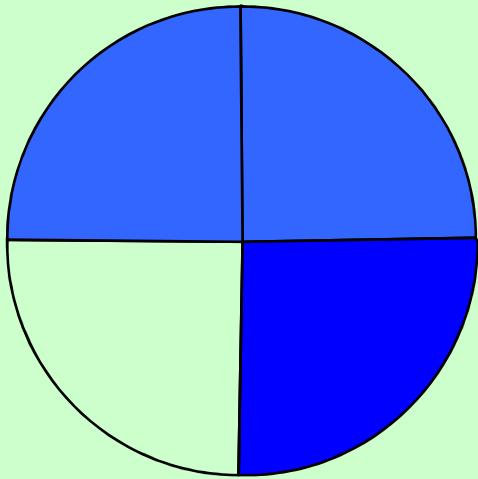


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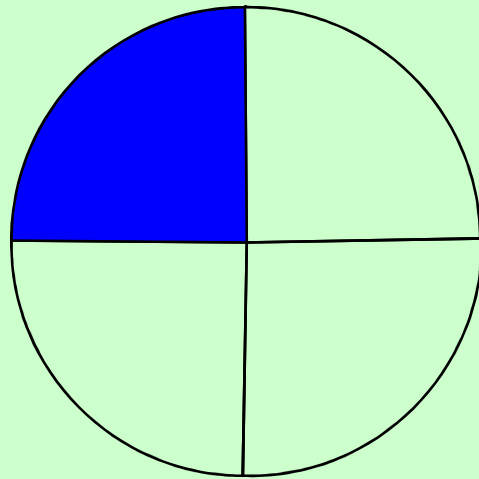




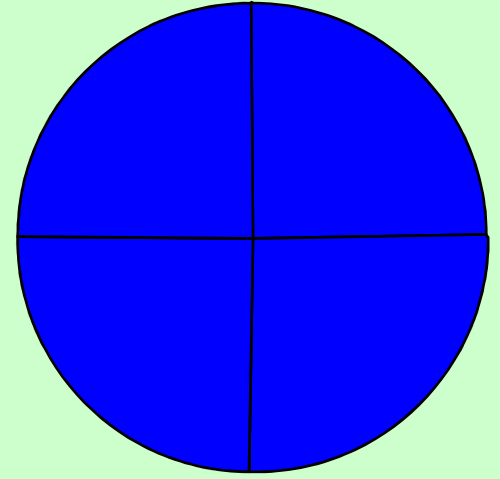
$$\frac{3}{4}$$



+

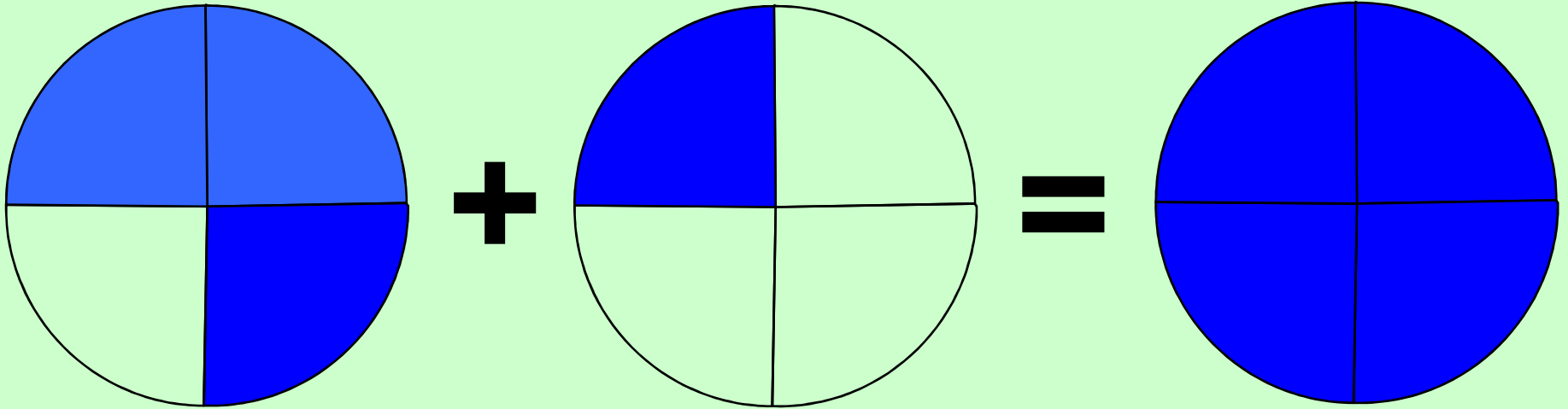


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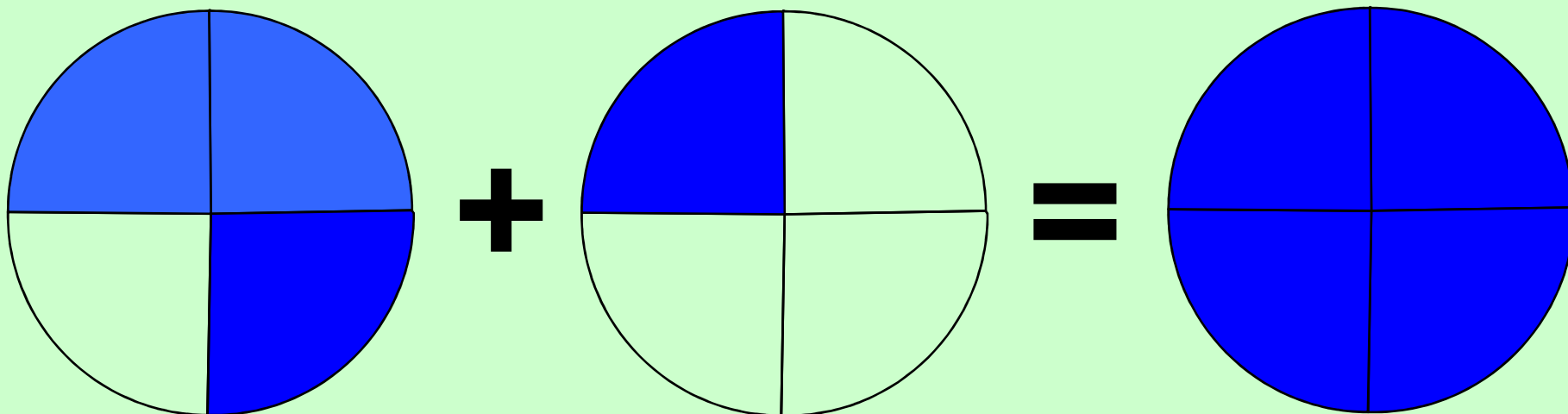


$$\frac{3}{4}$$

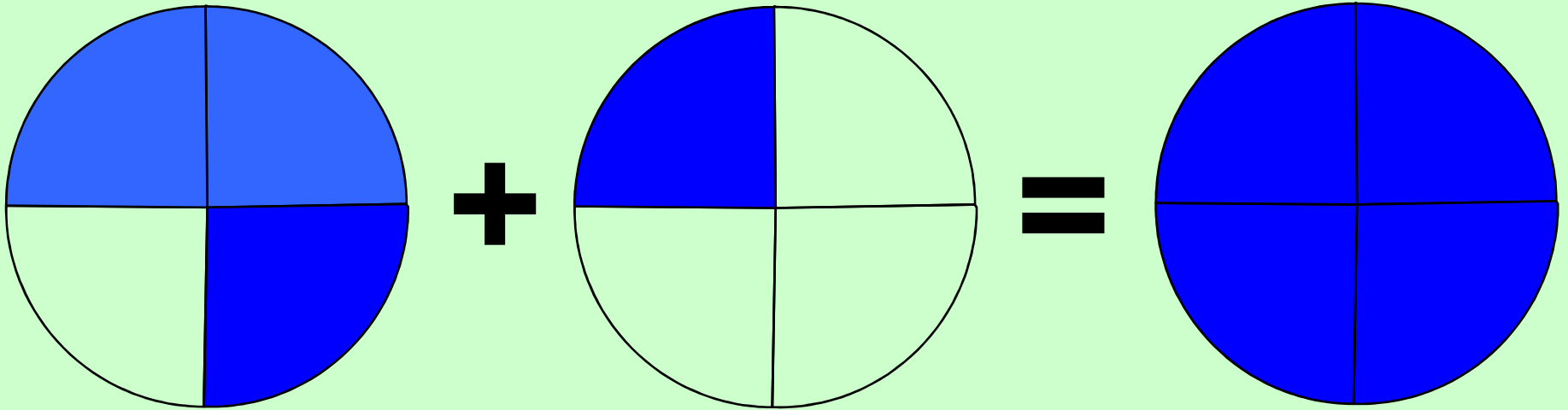
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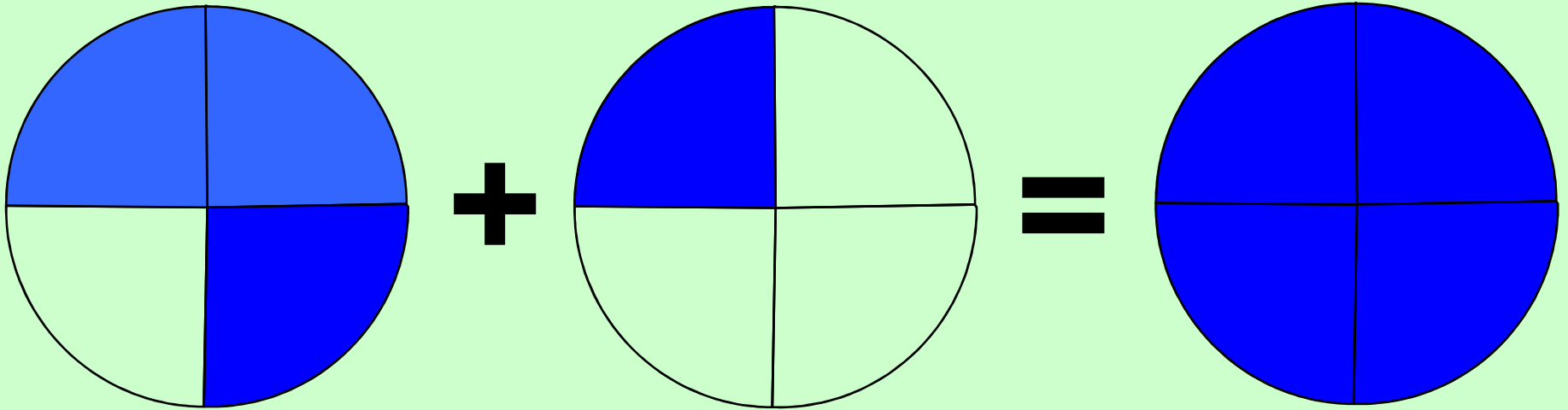
$$\frac{3}{4} + \frac{1}{4}$$



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



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

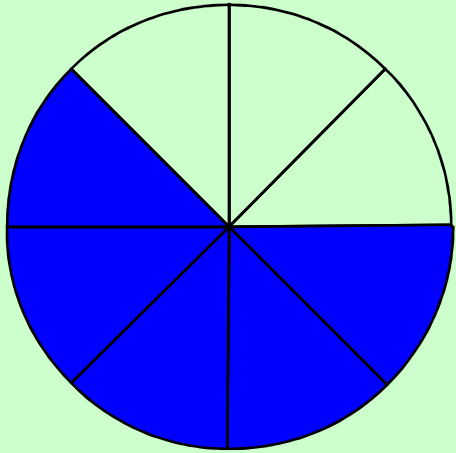


$$\frac{3}{4} + \frac{1}{4} = \frac{4}{4} \approx 1$$

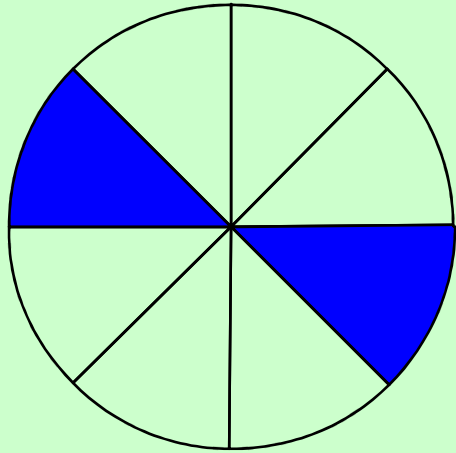
Same

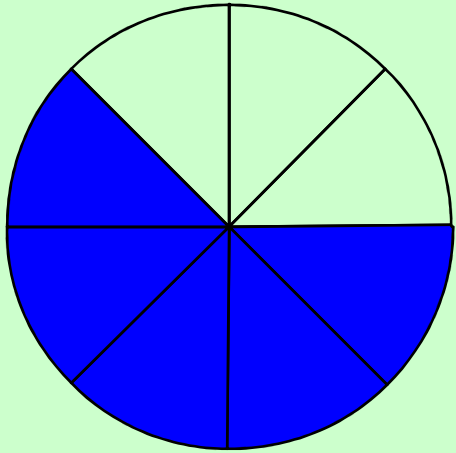
denominators: add

the numerators!

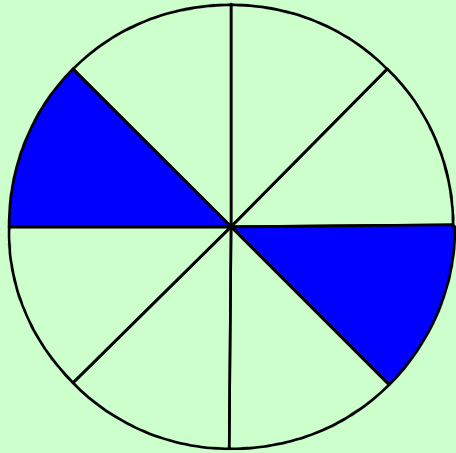


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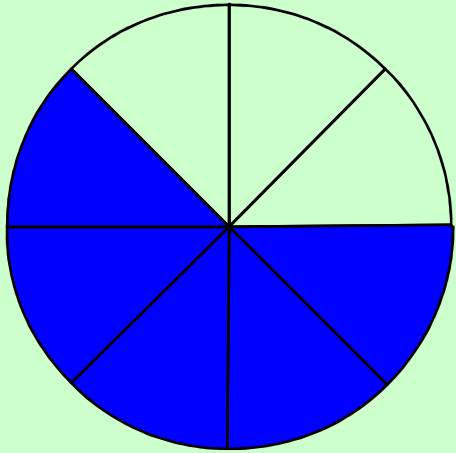




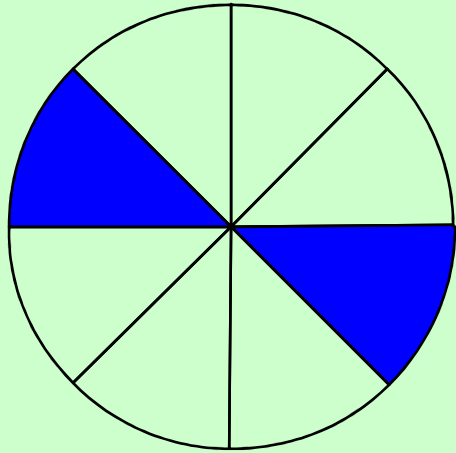
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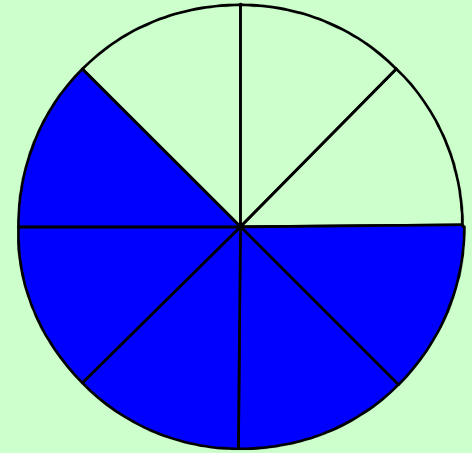
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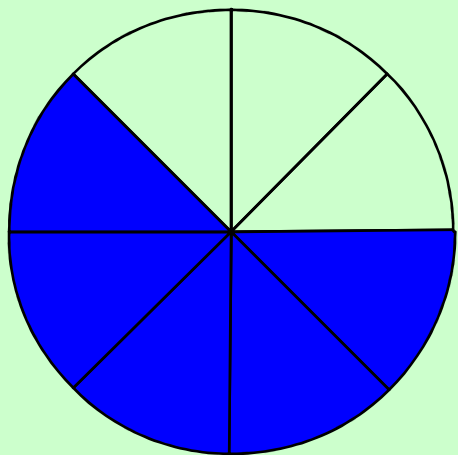


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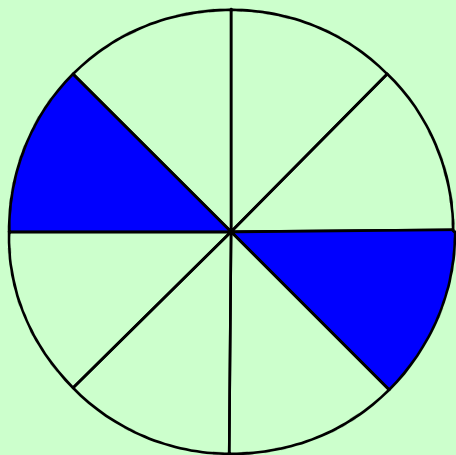


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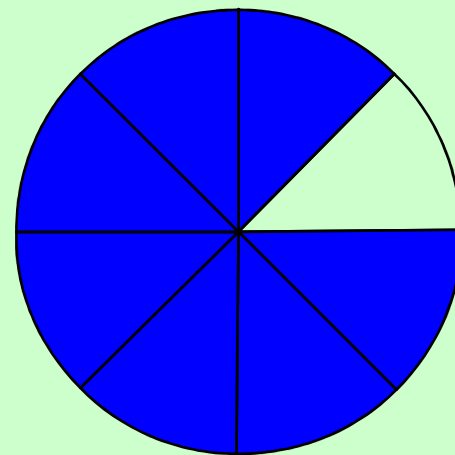


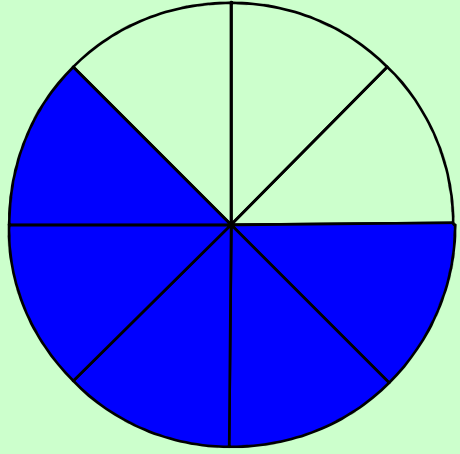


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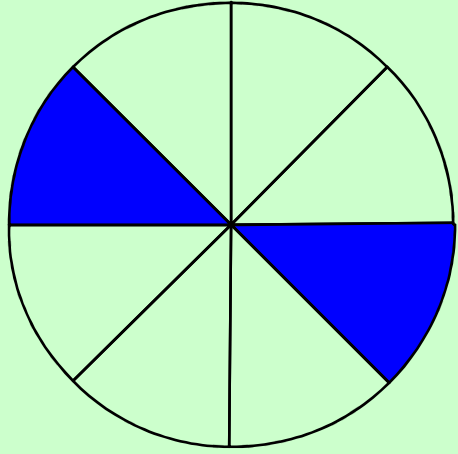


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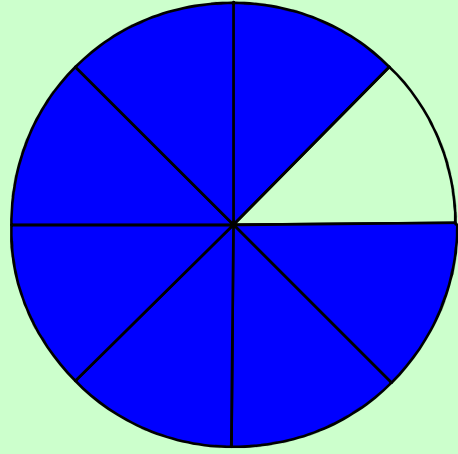




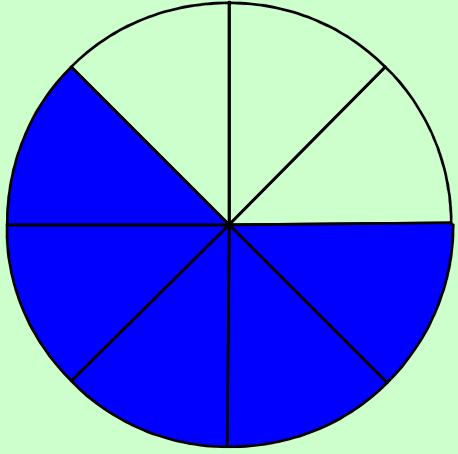
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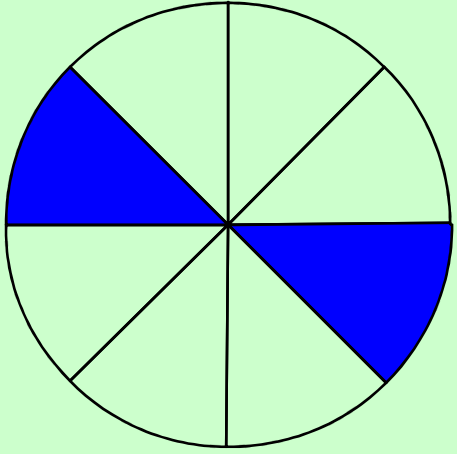
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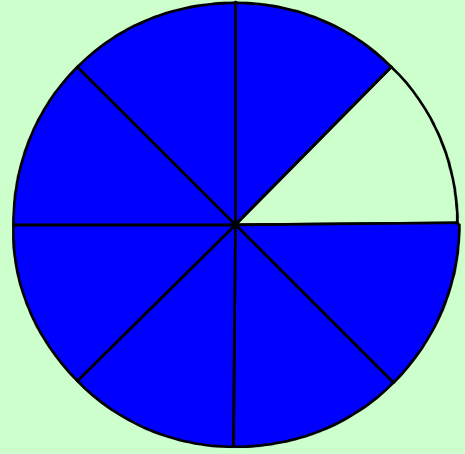
$$\frac{5}{8}$$



+

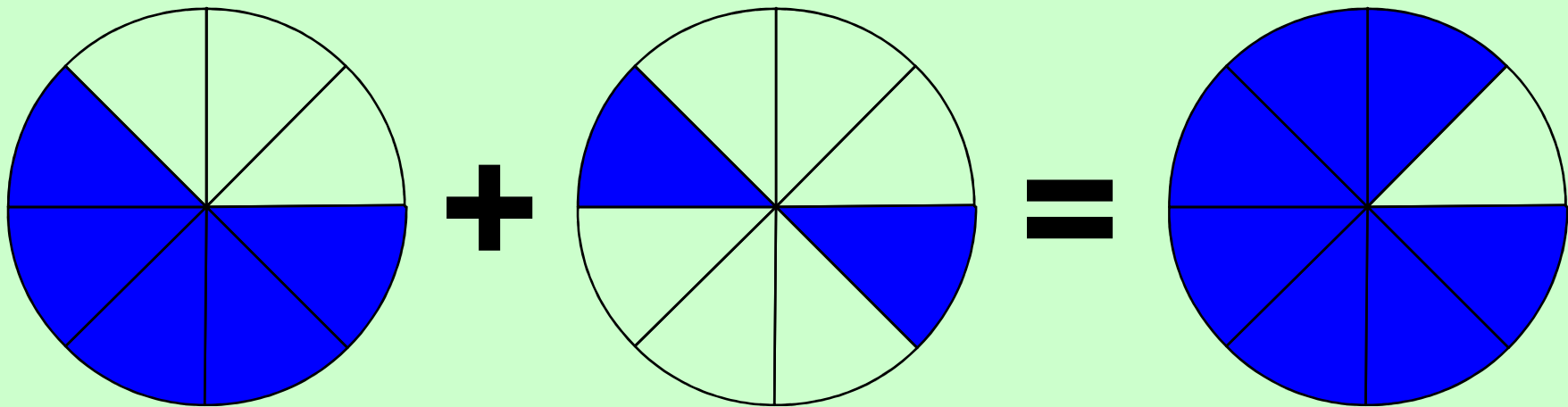


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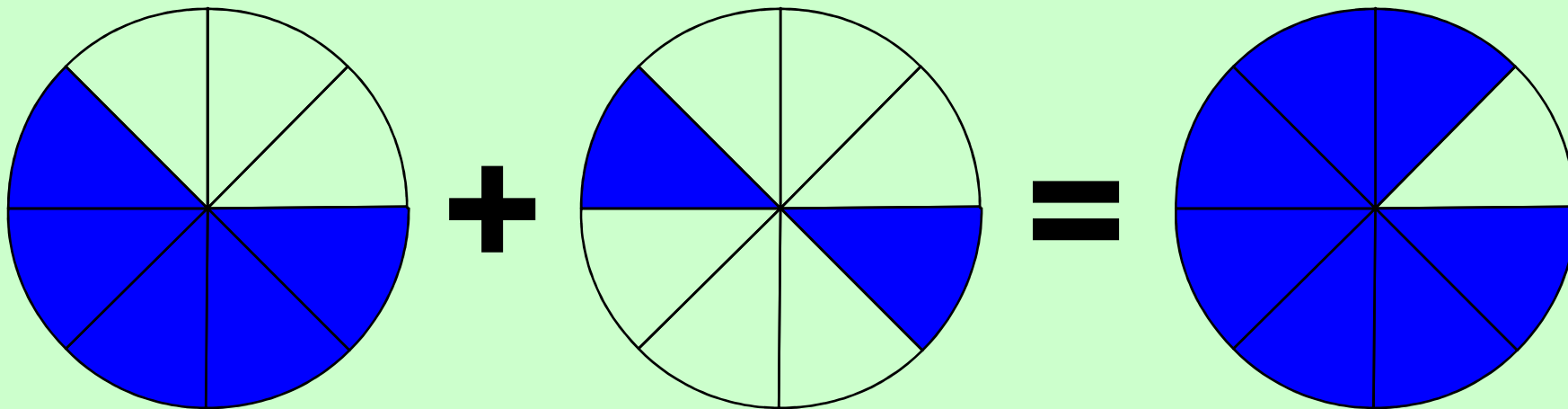


$\frac{5}{8}$

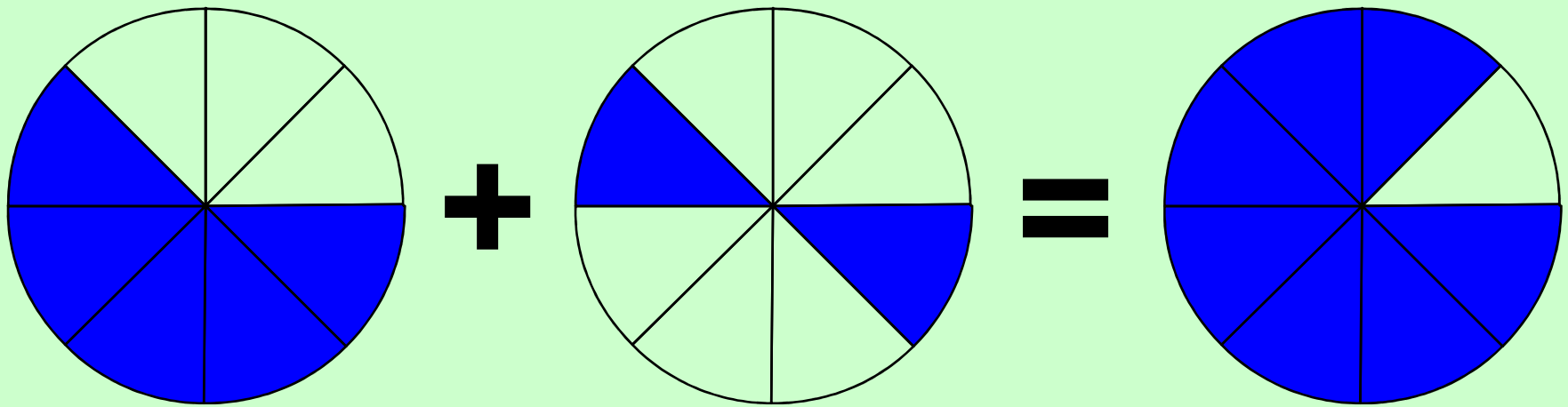
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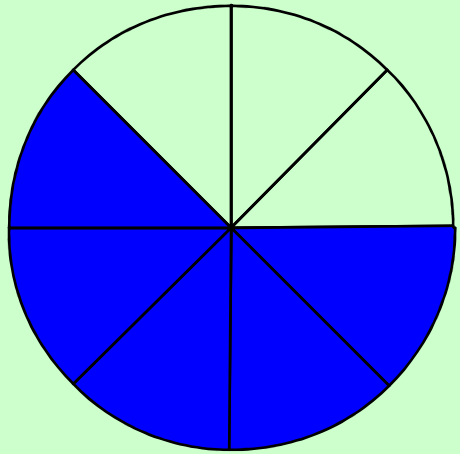
$$\frac{5}{8} + \frac{2}{8}$$



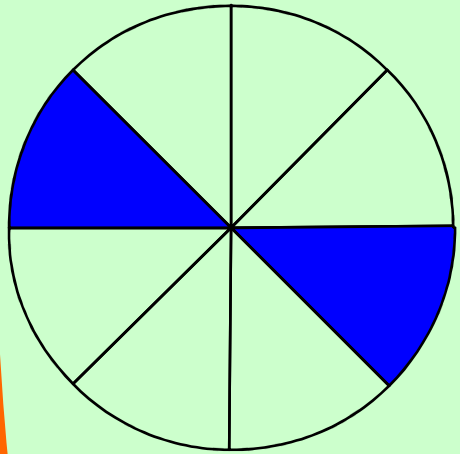
$$\frac{5}{8} + \frac{2}{8} =$$



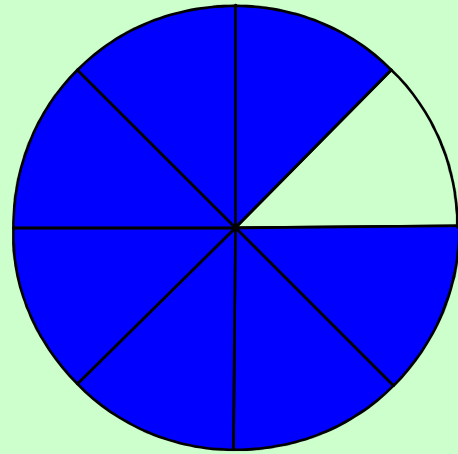
$$\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$



+



=



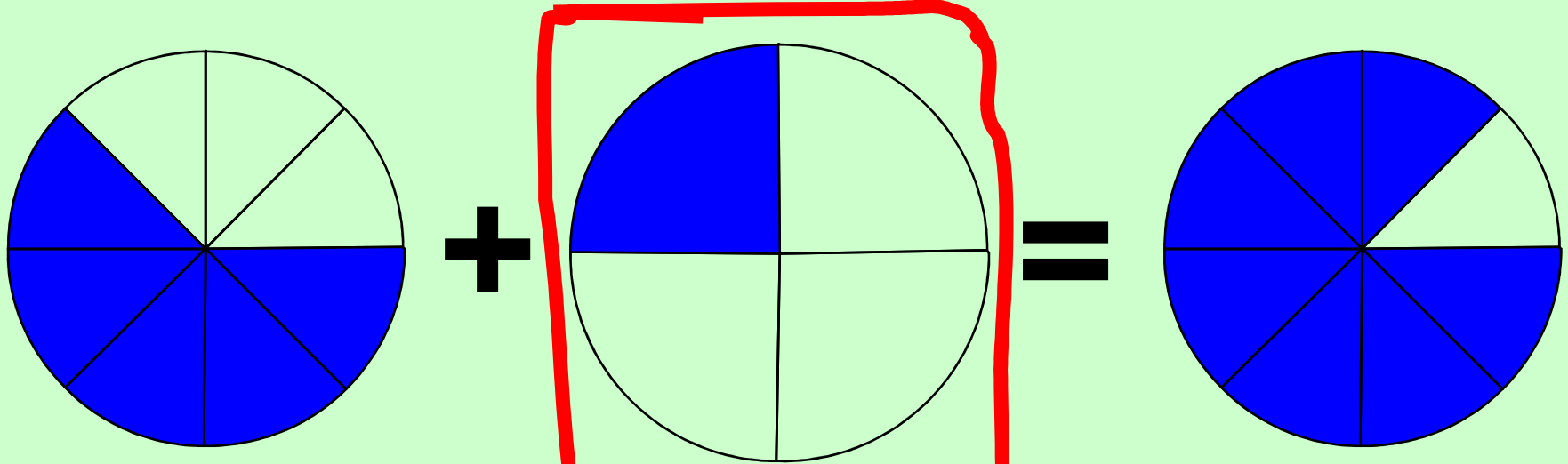
$$\frac{5}{8}$$

+

$$\frac{2}{8}$$

=

$$\frac{7}{8}$$



$$\frac{5}{8}$$

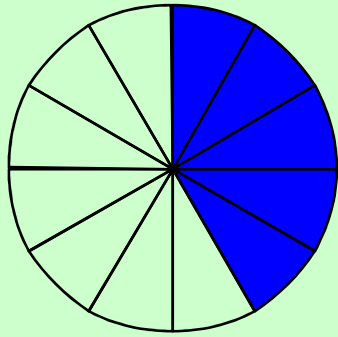
+

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

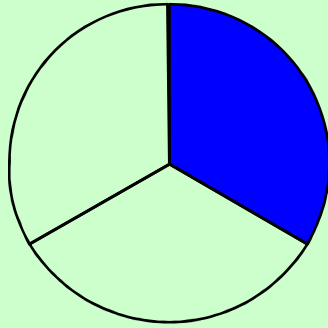
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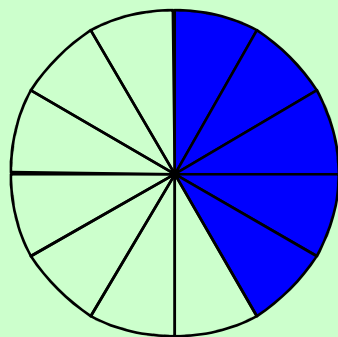
$$\frac{7}{8}$$

**If the denominators
are different, find
equivalent fractions,
then add numerators**

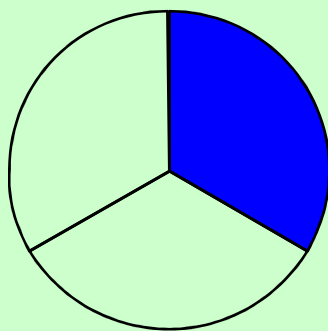


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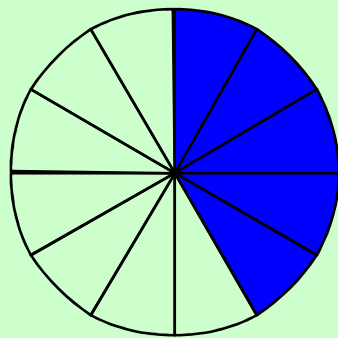
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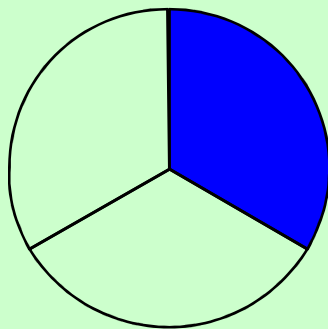
$$\frac{5}{12}$$

+

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



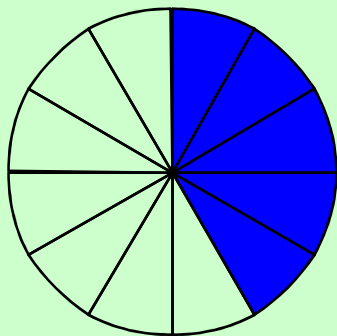
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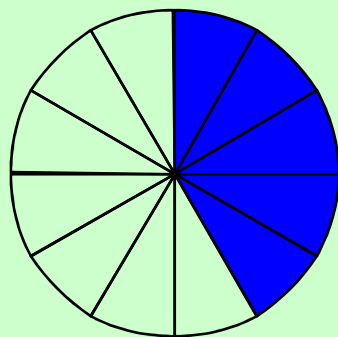


$$\frac{5}{12}$$

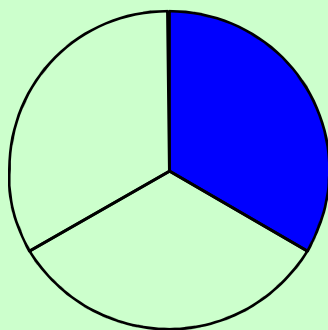
+

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





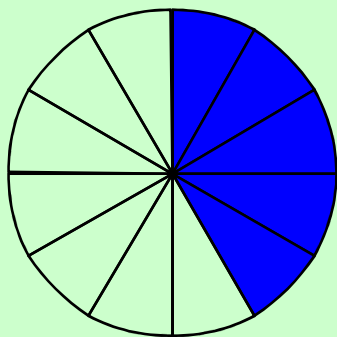
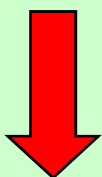
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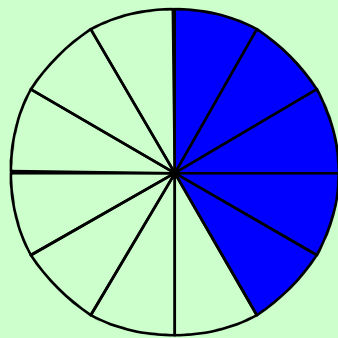
$$\frac{5}{12}$$

+

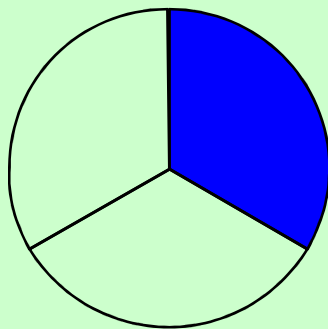
$$\frac{1}{3}$$



+



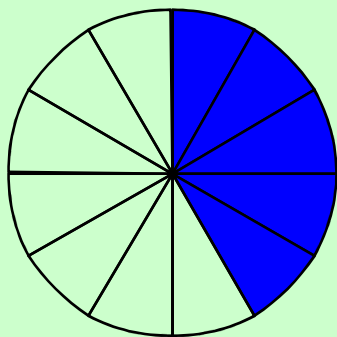
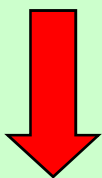
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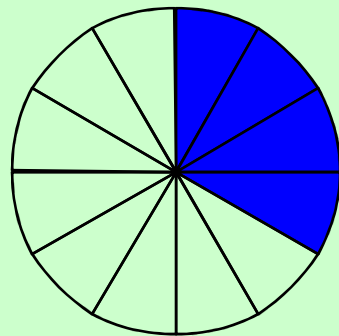
$$\frac{5}{12}$$

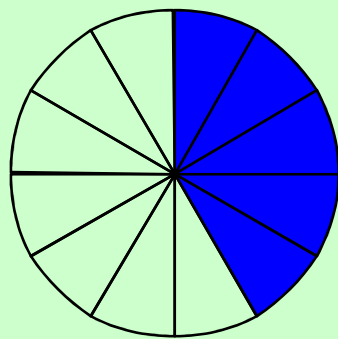
+

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

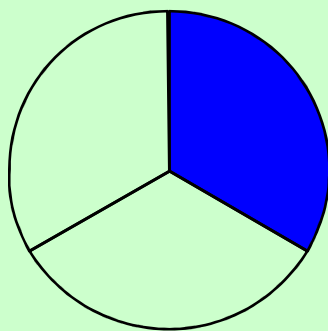


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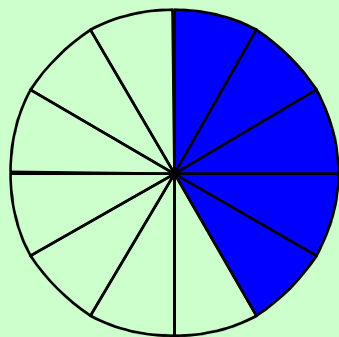




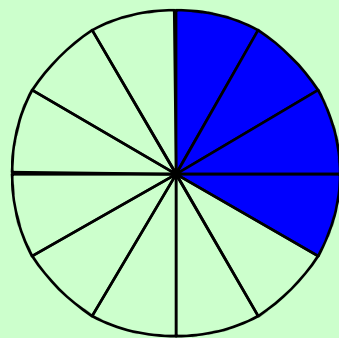
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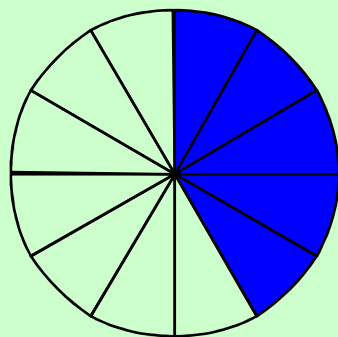


$$\frac{5}{12} + \frac{1}{3}$$

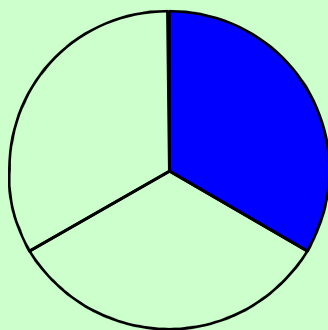


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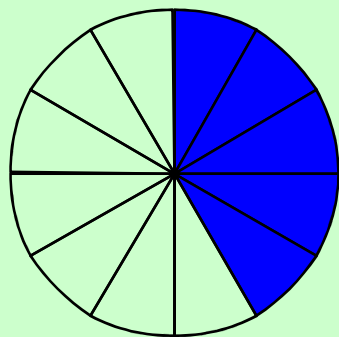
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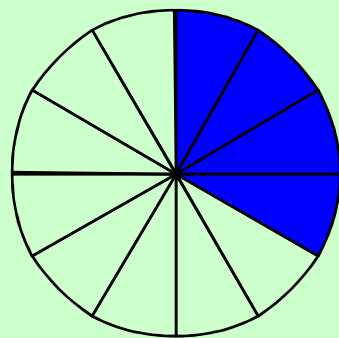
$$\frac{5}{12}$$

+

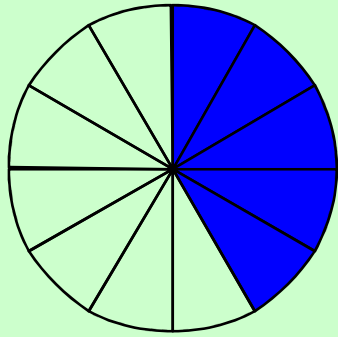
$$\frac{1}{3}$$



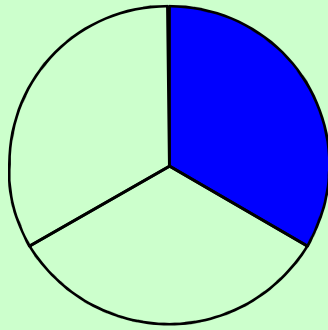
+



$$\frac{5}{12}$$



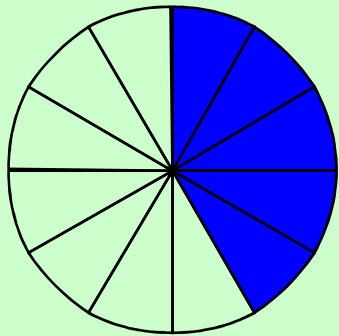
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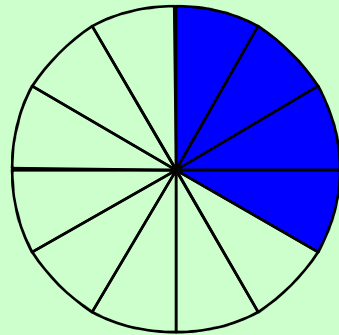
$$\frac{5}{12}$$

+

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

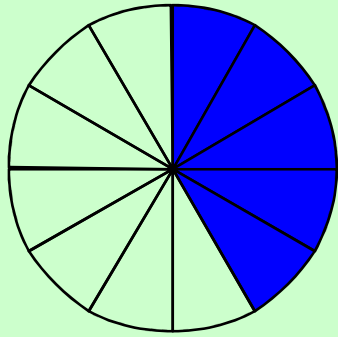


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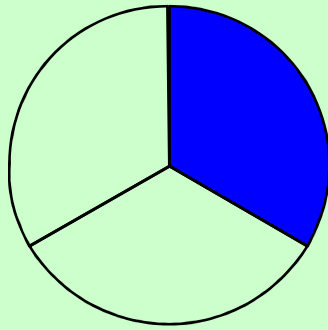


$$\frac{5}{12}$$

+



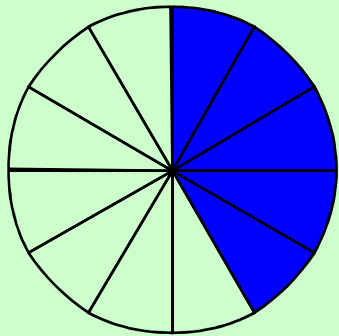
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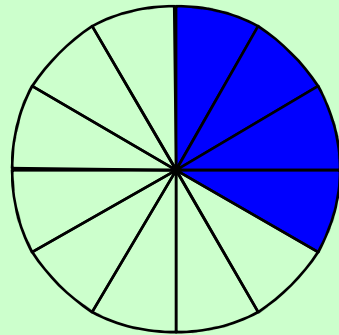
$$\frac{5}{12}$$

+

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



+



$$\frac{5}{12}$$

+

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

$$\frac{5}{12} + \frac{4}{12}$$

$$\frac{5}{12} + \frac{4}{12} =$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12}$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12} =$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12} = \frac{3}{4}$$

1. Check denominators

1. Check denominators

2. Find equivalent fractions so
denominators same

1. Check denominators
2. Find equivalent fractions so denominators same
3. Add numerators

1. Check denominators
2. Find equivalent fractions so denominators same
3. Add numerators
4. Cancel down if needed

1. Check denominators
2. Find equivalent fractions so denominators same
3. Add numerators
4. Cancel down if needed
5. Pull out the whole numbers if needed

Your turn...

$$\frac{2}{5} + \frac{3}{10}$$

$$\frac{7}{8} + \frac{3}{4}$$

$$\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

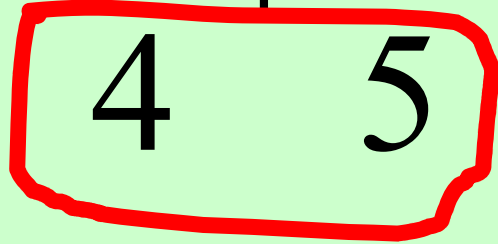
$$\frac{7}{8} + \frac{3}{4}$$

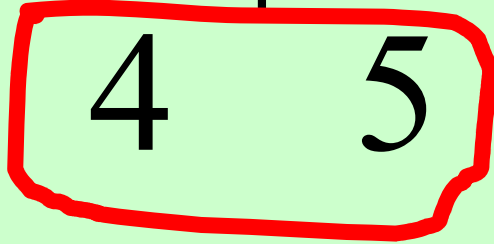
$$\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

$$\frac{7}{8} + \frac{3}{4} = \frac{7}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$$

**Sometimes, you
have to change *both*
denominators...**

$$\frac{3}{4} + \frac{4}{5}$$

$$\frac{3}{4} + \frac{4}{5}$$


$$\begin{array}{r} 3 \\ \hline \end{array} + \begin{array}{r} 4 \\ \hline \end{array}$$


**You need a number
that is a multiple of
both 4 and 5...**

$$\frac{3}{4} + \frac{4}{5} = \frac{?}{20} + \frac{?}{20}$$

$$\frac{3}{4} + \frac{4}{5} = \frac{?}{20} + \frac{?}{20}$$

$$= \frac{15}{20} + \frac{16}{20}$$

$$\frac{3}{4} + \frac{4}{5} = \frac{?}{20} + \frac{?}{20}$$

$$= \frac{15}{20} + \frac{16}{20} = \frac{31}{20}$$

$$\frac{3}{4} + \frac{4}{5} = \frac{?}{20} + \frac{?}{20}$$

$$= \frac{15}{20} + \frac{16}{20} = \frac{31}{20} = 1\frac{11}{20}$$

1. Check denominators

1. Check denominators
2. Find 'common denominator' (LCM)

1. Check denominators
2. Find 'common denominator' (LCM)
3. Add numerators

1. Check denominators
2. Find 'common denominator' (LCM)
3. Add numerators
4. Cancel down if needed

1. Check denominators
2. Find 'common denominator' (LCM)
3. Add numerators
4. Cancel down if needed
5. Pull out the whole numbers if needed

Your turn...

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

$$\frac{1}{6} + \frac{3}{4}$$

$$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$

$$\frac{1}{6} + \frac{3}{4}$$

$$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$

$$\frac{1}{6} + \frac{3}{4} = \frac{2}{12} + \frac{9}{12} = \frac{11}{12}$$

**Sometimes, you
have to add fractions
larger than one...**

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

I suggest making these fractions 'top heavy'.

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

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

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

$$= \frac{10}{6} + \frac{8}{6}$$

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

$$= \frac{10}{6} + \frac{8}{6}$$

$$= \frac{18}{6}$$

$$\begin{aligned} 2\frac{1}{2} + 1\frac{1}{3} &= \frac{5}{2} + \frac{4}{3} \\ &= \frac{10}{6} + \frac{8}{6} \\ &= \frac{18}{6} = 3 \end{aligned}$$

**Now find an exercise in
the book or a work-
sheet and practice!**