

Red

- 1) Abbie is sorting her tin of marbles.

$\frac{2}{12}$ are green.

$\frac{1}{6}$ are blue.

$\frac{1}{3}$ are white.

The remainder of the marbles are red and yellow.

What fraction could be red and what fraction could be yellow? Find all the possibilities.



2) $\frac{6}{?} + \frac{7}{10} = \frac{8}{?}$

Find 3 possible solutions.



1) $\frac{2}{12}$ are green.

$\frac{1}{6}$ are blue, which is equivalent to $\frac{2}{12}$.

$\frac{1}{3}$ are white, which is equivalent to $\frac{4}{12}$.

$$\frac{2}{12} + \frac{2}{12} + \frac{4}{12} = \frac{8}{12}$$

This leaves $\frac{4}{12}$ which are red and yellow.

There are 3 possibilities:

Yellow	Red
$\frac{1}{12}$	$\frac{3}{12}$
$\frac{2}{12}$	$\frac{2}{12}$
$\frac{3}{12}$	$\frac{1}{12}$

2) Possible solutions:

$$\frac{4}{20} + \frac{2}{10} = \frac{8}{20}$$

$$\frac{4}{10} + \frac{4}{10} = \frac{8}{10}$$

$$\frac{4}{20} + \frac{6}{10} = \frac{8}{10}$$

$$\frac{4}{40} + \frac{7}{10} = \frac{8}{10}$$

$$\frac{4}{5} + \frac{0}{10} = \frac{8}{10}$$