

Blue



1) True or false? Prove it!

a) $\frac{2}{8} + \frac{1}{4} + \frac{1}{16} = \frac{9}{16}$ _____

b) $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} = \frac{3}{12}$ _____

c) $\frac{1}{3} + \frac{1}{6} + \frac{4}{12} = \frac{10}{12}$ _____

d) $\frac{1}{6} + \frac{2}{12} + \frac{2}{3} = \frac{5}{21}$ _____

If false, what mistakes do you think have been made?

Hassan is sorting his marbles.

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

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

$\frac{5}{12}$ are yellow.

The rest are green.



What fraction of the marbles are green? _____



- 1) a) True
b) False. They have found a common denominator but not converted the numerators.
 $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} = \frac{9}{12}$
c) True
d) False. They have just added the denominators and the numerators, without finding a common denominator.
 $\frac{1}{6} + \frac{2}{12} + \frac{2}{3} = \frac{12}{12}$

2) $\frac{1}{3}$ (or $\frac{4}{12}$) are red.

$\frac{1}{6}$ (or $\frac{2}{12}$) are blue.

$\frac{5}{12}$ are yellow.

$$\frac{4}{12} + \frac{2}{12} + \frac{5}{12} = \frac{11}{12}$$

$\frac{1}{12}$ of the marbles are green.