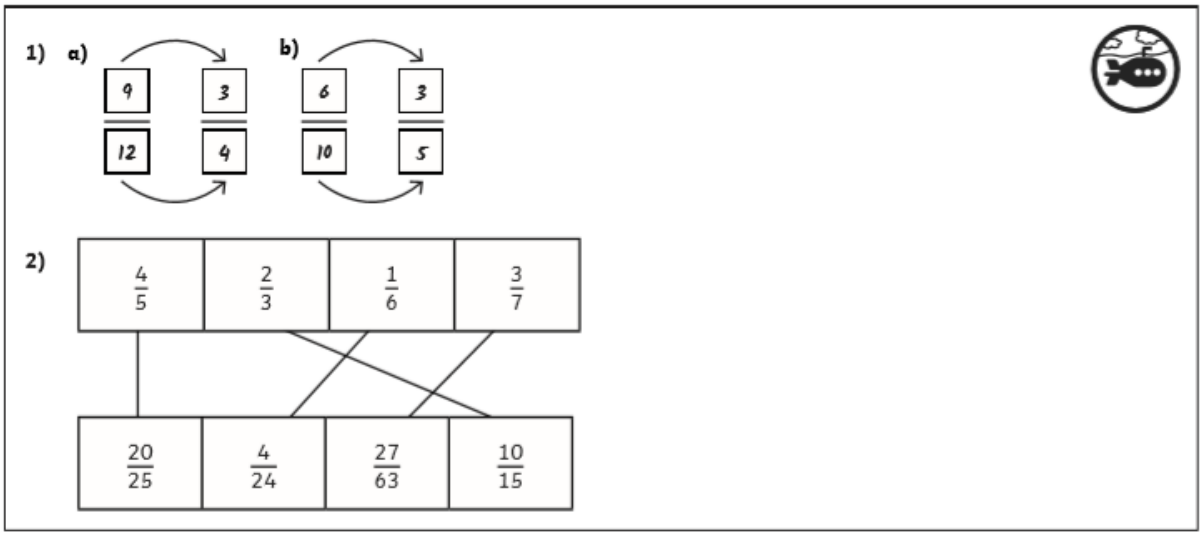
Green Answers



1. $\frac{8}{16} = \frac{1}{2}$

2. $\frac{7}{21} = \frac{1}{3}$

3. $\frac{9}{15} = \frac{3}{5}$

4. $\frac{2}{10} = \frac{1}{5}$

5. $\frac{3}{12} = \frac{1}{4}$

6. $\frac{5}{20} = \frac{1}{4}$

Yellow Answers

1. $\frac{15}{33} = \frac{5}{11}$

2. $\frac{12}{15} = \frac{4}{5}$

3. $\frac{9}{36} = \frac{1}{4}$

4. $\frac{14}{20} = \frac{7}{10}$

1) *This is incorrect.*

$\frac{10}{12}$ is equivalent to $\frac{30}{36}$ but to simplify it completely, the correct answer is $\frac{5}{6}$.

2) *Marlon is correct.*

$\frac{10}{24}$ simplifies to $\frac{5}{12}$.

Red Answers

1) *Children should find all multiples of 30 that are divisible by 8 to find possible denominators, e.g. 120, 240, 360, 480, 600, 720, 840, 960.*

They should then use understanding of multiples and equivalent fractions to find all the possible fractions:

$\frac{45}{120}$ $\frac{90}{240}$ $\frac{135}{360}$ $\frac{180}{480}$ $\frac{225}{600}$ $\frac{270}{720}$ $\frac{315}{840}$ $\frac{360}{960}$

2) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}, \frac{1}{11}, \frac{1}{12}$

$\frac{2}{3}, \frac{2}{5}, \frac{2}{7}, \frac{2}{9}, \frac{2}{11}$

$\frac{3}{4}, \frac{3}{5}, \frac{3}{7}, \frac{3}{8}, \frac{3}{10}, \frac{3}{11}$

$\frac{4}{5}, \frac{4}{7}, \frac{4}{9}, \frac{4}{11}$

$\frac{5}{6}, \frac{5}{7}, \frac{5}{8}, \frac{5}{9}, \frac{5}{11}, \frac{5}{12}$

$\frac{6}{7}, \frac{6}{11}$

$\frac{7}{8}, \frac{7}{9}, \frac{7}{10}, \frac{7}{11}, \frac{7}{12}$

$\frac{8}{9}, \frac{8}{11}$

$\frac{9}{10}, \frac{9}{11}$

$\frac{10}{11}, \frac{11}{12}$

All the fractions that cannot be simplified will have at least one odd number. Fractions with a numerator of 1 (unit fractions) cannot be simplified.

Q1.

Fractions written in the correct order, as shown:

$\frac{3}{5}$ $\frac{3}{4}$ $\frac{6}{5}$

Q2.

Gives a correct explanation that converts the given fractions to decimals **or** fractions with a common denominator / numerator **or** percentages, eg:

- $\frac{4}{7} = \frac{36}{63}$ but $\frac{5}{9} = \frac{35}{63}$
- 0.57142… > 0.55555
- Because there is a $\frac{1}{63}$ difference between the two

Q3.

- n = 20 **and** p = 30
- n = 80 **and** p = 120