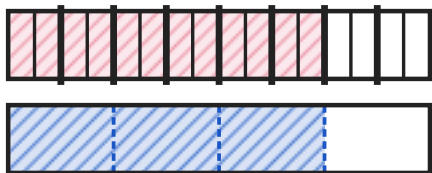


Simplifying Fractions

ANSWERS

1

Simplify $\frac{12}{16}$

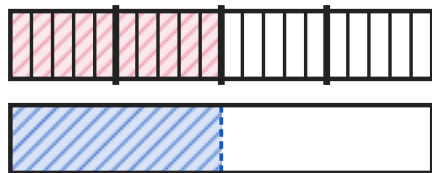


$$\begin{array}{l} \frac{12}{16} \xrightarrow{\div 2} \frac{6}{8} \xrightarrow{\div 2} \frac{3}{4} \\ \frac{12}{16} \xrightarrow{\div 2} \frac{6}{8} \xrightarrow{\div 2} \frac{3}{4} \end{array}$$

Simplest form $\frac{3}{4}$

2

Simplify $\frac{10}{20}$

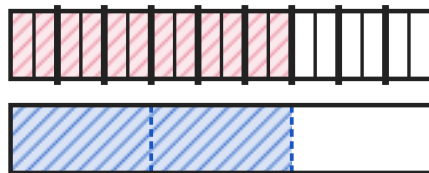


$$\begin{array}{l} \frac{10}{20} \xrightarrow{\div 5} \frac{2}{4} \xrightarrow{\div 2} \frac{1}{2} \\ \frac{10}{20} \xrightarrow{\div 5} \frac{2}{4} \xrightarrow{\div 2} \frac{1}{2} \end{array}$$

Simplest form $\frac{1}{2}$

3

Simplify $\frac{12}{18}$

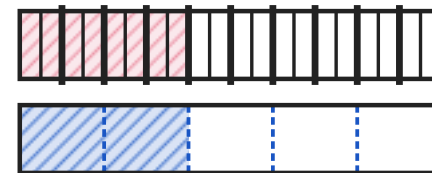


$$\begin{array}{l} \frac{12}{18} \xrightarrow{\div 2} \frac{6}{9} \xrightarrow{\div 3} \frac{2}{3} \\ \frac{12}{18} \xrightarrow{\div 2} \frac{6}{9} \xrightarrow{\div 3} \frac{2}{3} \end{array}$$

Simplest form $\frac{2}{3}$

4

Simplify $\frac{8}{20}$

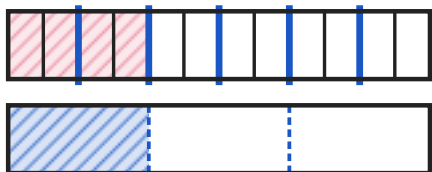


$$\begin{array}{l} \frac{8}{20} \xrightarrow{\div 2} \frac{4}{10} \xrightarrow{\div 2} \frac{2}{5} \\ \frac{8}{20} \xrightarrow{\div 2} \frac{4}{10} \xrightarrow{\div 2} \frac{2}{5} \end{array}$$

Simplest form $\frac{2}{5}$

5

Simplify $\frac{4}{12}$

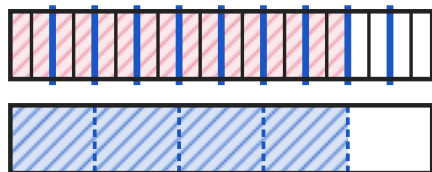


$$\begin{array}{l} \frac{4}{12} \xrightarrow{\div 2} \frac{2}{6} \xrightarrow{\div 2} \frac{1}{3} \\ \frac{4}{12} \xrightarrow{\div 2} \frac{2}{6} \xrightarrow{\div 2} \frac{1}{3} \end{array}$$

Simplest form $\frac{1}{3}$

6

Simplify $\frac{16}{20}$

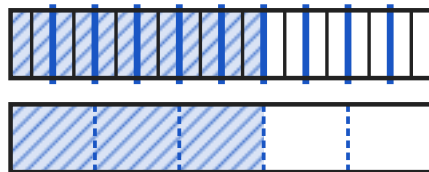


$$\begin{array}{l} \frac{16}{20} \xrightarrow{\div 2} \frac{8}{10} \xrightarrow{\div 2} \frac{4}{5} \\ \frac{16}{20} \xrightarrow{\div 2} \frac{8}{10} \xrightarrow{\div 2} \frac{4}{5} \end{array}$$

Simplest form $\frac{4}{5}$

7

A chocolate bar has 20 equal pieces. Amy eats 12 of them. What fraction does she eat?

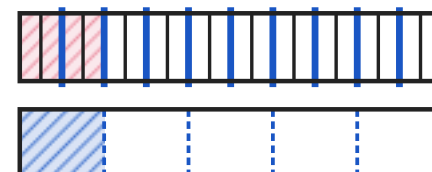


$$\begin{array}{l} \frac{12}{20} \xrightarrow{\div 2} \frac{6}{10} \xrightarrow{\div 2} \frac{3}{5} \\ \frac{12}{20} \xrightarrow{\div 2} \frac{6}{10} \xrightarrow{\div 2} \frac{3}{5} \end{array}$$

Simplest form $\frac{3}{5}$

8

What fraction of the bar is shaded? Write it in its simplest form.



$$\begin{array}{l} \frac{4}{20} \xrightarrow{\div 2} \frac{2}{10} \xrightarrow{\div 2} \frac{1}{5} \\ \frac{4}{20} \xrightarrow{\div 2} \frac{2}{10} \xrightarrow{\div 2} \frac{1}{5} \end{array}$$

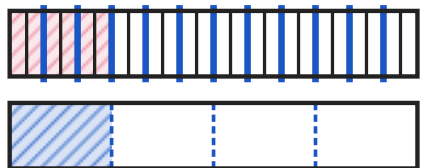
Simplest form $\frac{1}{5}$

Simplifying Fractions *further practice*

ANSWERS

9

Simplify $\frac{6}{24}$



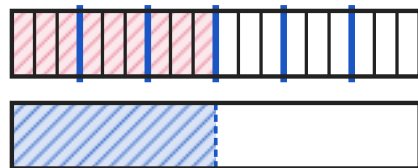
$$\frac{6}{24} \xrightarrow{\div 2} \frac{3}{12} \xrightarrow{\div 3} \frac{1}{4}$$

$$\frac{6}{24} \xrightarrow{\div 3} \frac{2}{8} \xrightarrow{\div 2} \frac{1}{4}$$

Simplest form $\frac{1}{4}$

10

Simplify $\frac{9}{18}$



$$\frac{9}{18} \xrightarrow{\div 3} \frac{3}{6} \xrightarrow{\div 3} \frac{1}{2}$$

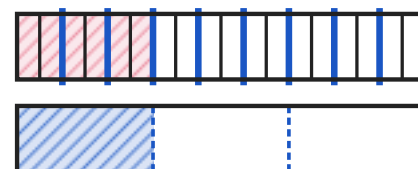
$$\frac{9}{18} \xrightarrow{\div 2} \frac{4.5}{9} \xrightarrow{\div 4.5} \frac{1}{2}$$

Simplest form $\frac{1}{2}$

11

Find the missing number.

$$\frac{6}{18} = \frac{1}{\quad}$$



$$\frac{6}{18} \xrightarrow{\div 2} \frac{3}{9} \xrightarrow{\div 3} \frac{1}{3}$$

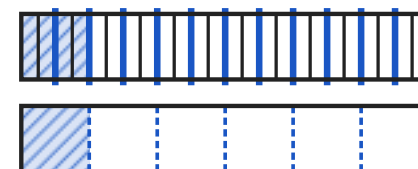
$$\frac{6}{18} \xrightarrow{\div 3} \frac{2}{6} \xrightarrow{\div 2} \frac{1}{3}$$

Missing number 3

12

A box has 24 eggs. 4 of them are brown.

What fraction are brown?



$$\frac{4}{24} \xrightarrow{\div 2} \frac{2}{12} \xrightarrow{\div 2} \frac{1}{6}$$

$$\frac{4}{24} \xrightarrow{\div 4} \frac{1}{6}$$

Simplest form $\frac{1}{6}$

13

A bag has 15 sweets. 10 of them are red. What fraction are red?



$$\frac{10}{15} \rightarrow \div 5 \rightarrow \frac{2}{3}$$

2 and 3: only 1 goes into both

Simplest form $\frac{2}{3}$

14

Two of these bars show the same fraction. Which two?



$$A \frac{6}{8} = \frac{3}{4} \quad B \frac{4}{6} = \frac{2}{3}$$

$$C \frac{9}{12} = \frac{3}{4}, \text{ the same as A}$$

Answer $A \text{ and } C$

15

Simplify $\frac{16}{24}$. You may need to divide more than twice.



$$\frac{16}{24} \rightarrow \div 2 \rightarrow \frac{8}{12} \rightarrow \div 2 \rightarrow \frac{4}{6}$$

$$\frac{4}{6} \rightarrow \div 2 \rightarrow \frac{2}{3}$$

Simplest form $\frac{2}{3}$

16

Jo simplifies $\frac{18}{24}$ and gets $\frac{9}{12}$.

She says this is the simplest form. What has she done wrong?



Jo can still divide by 3

Right answer $\frac{9}{12} = \frac{3}{4}$