

Simplifying Fractions

ANSWERS

1

Simplify $\frac{6}{8}$



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

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

2

Simplify $\frac{4}{10}$



$$\frac{4}{10} \xrightarrow{\div 2} \frac{2}{5}$$

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

3

Simplify $\frac{6}{9}$



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

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

4

Simplify $\frac{8}{12}$



$$\frac{8}{12} \xrightarrow{\div 4} \frac{2}{3}$$

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

5

Simplify $\frac{15}{20}$

$$\frac{15}{20} \xrightarrow{\div 5} \frac{3}{4}$$

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

6

Simplify $\frac{14}{21}$

$$\frac{14}{21} \xrightarrow{\div 7} \frac{2}{3}$$

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

7

18 of the 30 students in a class walk to school. What fraction is this, in its simplest form?

$$\frac{18}{30}, \text{ divide both by 6}$$

Answer $\frac{3}{5}$

8

Which of these is not equal to $\frac{2}{3}$?

$$\frac{8}{12} \quad \frac{10}{15} \quad \frac{12}{20}$$

$$\frac{12}{20} \text{ simplifies to } \frac{3}{5}$$

Answer $\frac{12}{20}$

Simplifying Fractions further practice

ANSWERS

9

Simplify $\frac{36}{48}$

$$\div 12 \text{ top and bottom}$$

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

10

What fraction of the rectangle is shaded? Give your answer in its simplest form.



$$\frac{10}{24}, \div 2 \text{ top and bottom}$$

Answer $\frac{5}{12}$

11

Find the missing number.

$$\frac{30}{36} = \frac{5}{6}$$

$$30 = 5 \times 6, \text{ so } 6 \times 6$$

12

Which two of these fractions are equal?

$$\frac{12}{18} \quad \frac{15}{25} \quad \frac{21}{28} \quad \frac{20}{30}$$

$$\frac{2}{3} \quad \frac{3}{5} \quad \frac{3}{4} \quad \frac{2}{3}$$

Answer $\frac{12}{18}$ and $\frac{20}{30}$

13

A class has 12 boys and 16 girls. What fraction of the pupils in the class are girls? Give your answer in its simplest form.

$$28 \text{ pupils, so } \frac{16}{28}$$

Answer $\frac{4}{7}$

14

A film lasts 2 hours. Jo has watched 80 minutes of the film. What fraction of the film has Jo watched? Give your answer in its simplest form.

$$2 \text{ hours} = 120 \text{ minutes, so } \frac{80}{120}$$

Answer $\frac{2}{3}$

15

A cinema has 144 seats. 90 of the seats in the cinema are booked. What fraction of the seats are booked? Give your answer in its simplest form.

$$\frac{90}{144}, \div 2 \text{ then } \div 9$$

Answer $\frac{5}{8}$

16

Ben says $\frac{21}{35}$ cannot be simplified because 21 and 35 are both odd numbers. Is Ben right? Explain.

$$7 \text{ goes into } 21 \text{ and } 35$$

Answer No, it is $\frac{3}{5}$