

SIMPLIFYING FRACTIONS

Memorandum

20.04.2020

To find the **simplest form** of a fraction, divide both the numerator and denominator by the **greatest common factor**.

Simplify $\frac{6}{10}$

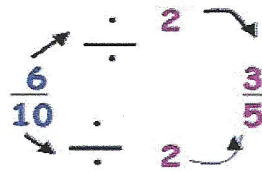
Step 1

Find the **common factors** of the numerator and denominator.

Factors of 6: 1, 2, 3, 6

Factors of 10: 1, 2, 5, 10

The greatest common factor is 2.



Step 2

Divide the numerator and denominator by the **greatest common factor**.

Exercise 1

Copy the question into your workbook and fill in the answers.

Divide the numerator and denominator of these fractions by the highest common factor to get their simplest form.

1) $\frac{12 \div 3}{15 \div 3} = \frac{4}{5}$

2) $\frac{18 \div 2}{20 \div 2} = \frac{9}{10}$

3) $\frac{15 \div 5}{35 \div 5} = \frac{3}{7}$

4) $\frac{28 \div 7}{49 \div 7} = \frac{4}{7}$

5) $\frac{15 \div 3}{24 \div 3} = \frac{5}{8}$

6) $\frac{6 \div 3}{15 \div 3} = \frac{2}{5}$

7) $\frac{20 \div 4}{36 \div 4} = \frac{5}{9}$

8) $\frac{6 \div 6}{42 \div 6} = \frac{1}{7}$

9) $\frac{21 \div 3}{54 \div 3} = \frac{7}{18}$

10) $\frac{18 \div 9}{63 \div 9} = \frac{2}{7}$

11) $\frac{33 \div 3}{45 \div 3} = \frac{11}{15}$

12) $\frac{18 \div 6}{12 \div 6} = \frac{3}{2}$

13) $\frac{21 \div 7}{14 \div 7} = \frac{3}{2}$

14) $\frac{35 \div 5}{20 \div 5} = \frac{7}{4}$

15) $\frac{8 \div 1}{13 \div 1} = \frac{8}{13}$

16) $\frac{60 \div 12}{24 \div 12} = \frac{5}{2}$

17) $\frac{45 \div 9}{27 \div 9} = \frac{5}{3}$

18) $\frac{77 \div 11}{44 \div 11} = \frac{7}{4}$

19) $\frac{42 \div 2}{16 \div 2} = \frac{21}{8}$

20) $\frac{13 \div 13}{65 \div 13} = \frac{1}{5}$

21) $\frac{51 \div 3}{27 \div 3} = \frac{17}{9}$

22) $\frac{19 \div 1}{12 \div 1} = \frac{19}{12}$

23) $\frac{63 \div 21}{42 \div 21} = \frac{3}{2}$

24) $\frac{72 \div 8}{16 \div 8} = \frac{9}{2}$

25) $\frac{54 \div 18}{18 \div 18} = \frac{3}{1}$

26) $\frac{81 \div 9}{36 \div 9} = \frac{9}{4}$

27) $\frac{42 \div 3}{15 \div 3} = \frac{14}{5}$

28) $\frac{55 \div 5}{35 \div 5} = \frac{11}{7}$

