Simplifying Fractions .

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Revision :

$\frac{2}{3} = \frac{6}{9}$ good

$\frac{6}{14} = \frac{3}{7}$ ✓

Simplifying fractions :

$\frac{18}{8} = \frac{9}{4}$ ✓ (÷2, ÷2)

[If both numbers are even → keep on halving the numbers ÷ by 2]

$\frac{28}{16} = \frac{14}{8} = \frac{7}{4}$ ✓

14
28

$2 \times \frac{?}{?} = \frac{2}{8}$

$2 \times \frac{?}{?} = \frac{2}{8}$

$2 \times \frac{?}{?} = 14$

$\frac{48}{32} = \frac{24}{16} = \frac{12}{8} = \frac{6}{4} = \frac{3}{2}$ ✓ (÷2, ÷2, ÷2, ÷2)

24
48
326
1

16
32

3 - 2 = 1

16
2 ⟌ 32
2
12
12
X

$\frac{9}{15} = \frac{3}{5}$ ✓

[In case of odd numbers we look for 3 to divide (but it can be 5 or 7 as well)]

$\frac{9}{6} = \frac{3}{2}$ [look for common divisor of numerator and denominator]

$\frac{5}{15} = \frac{1}{3}$ [common divisor is 5]

$5 \div 3 = 1$

$3 \div 3 = 1$

$3 \times 1 = 5$

$3 \times 1 = 3$

$\frac{7}{14} = \frac{1}{2}$ (common div is 7)

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

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

$\frac{8}{16} = \frac{4}{8} = \frac{2}{4} = \frac{1}{2}$ ✓

Simplify the fractions.

1. $\frac{6}{30} = \frac{2}{10} = \frac{1}{5}$

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

3. $\frac{4}{40} = \frac{1}{10}$

4. $\frac{24}{30} = \frac{12}{15} = \frac{4}{5}$ ✓

5. $\frac{6}{8} = \frac{3}{4}$

6. $\frac{8}{12} = \frac{4}{6} = \frac{2}{3}$

7. $\frac{12}{24} = \frac{2}{4} = \frac{1}{2}$

8. $\frac{99}{108} = \frac{33}{36} = \frac{11}{12}$ ✓

$3\overline{)108}$ ✓

99 ✓ (18) 3

108 ✓ (9) 3

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11. $\frac{50}{80} = \frac{5}{8}$

12. $\frac{63}{72} = \frac{7}{8}$ ✓

13. $\frac{9}{72} = \frac{1}{8}$

14. $\frac{48}{96} = \frac{24}{48} = \frac{12}{24} = \frac{6}{12} = \frac{1}{2}$

$2\overline{)96}$ 48, 8, 16, 16, X

15. $\frac{2}{6} = \frac{1}{3}$

16. $\frac{49}{70} = \frac{7}{10}$ ✓

$\frac{15}{30} = \frac{5}{10} = \frac{1}{2}$

$\frac{30}{15} = \frac{10}{5} = \frac{2}{1} = 2$ ✓

4+9 = (13) ↖ not divisible by 3

⇒ 49 is also not divisible by 3.