

Simplifying Fractions

F-SIM 1

Instructions: Simplify these fractions using the procedure you learned in the video. Cancel common factors and remultiply any remaining factors to get your final answer.

$$1 \quad \frac{12}{14} = \frac{\cancel{2} \times 2 \times 3}{\cancel{2} \times 7} = \frac{6}{7}$$

$$2 \quad \frac{5}{10} = \underline{\hspace{2cm}} =$$

$$3 \quad \frac{6}{9} = \underline{\hspace{2cm}} =$$

$$4 \quad \frac{9}{12} = \underline{\hspace{2cm}} =$$

$$5 \quad \frac{7}{21} = \underline{\hspace{2cm}} =$$

$$6 \quad \frac{14}{16} = \underline{\hspace{2cm}} =$$

$$7 \quad \frac{7}{14} = \underline{\hspace{2cm}} =$$

$$8 \quad \frac{15}{40} = \underline{\hspace{2cm}} =$$

$$9 \quad \frac{5}{20} = \underline{\hspace{2cm}} =$$

$$10 \quad \frac{22}{44} = \underline{\hspace{2cm}} =$$

$$11 \quad \frac{8}{12} = \underline{\hspace{2cm}} =$$

$$12 \quad \frac{20}{24} = \underline{\hspace{2cm}} =$$

$$13 \quad \frac{10}{15} = \underline{\hspace{2cm}} =$$

$$14 \quad \frac{25}{30} = \underline{\hspace{2cm}} =$$

$$15 \quad \frac{18}{24} = \underline{\hspace{2cm}} =$$

$$16 \quad \frac{16}{36} = \underline{\hspace{2cm}} =$$

$$17 \quad \frac{10}{25} = \underline{\hspace{2cm}} =$$

$$18 \quad \frac{35}{50} = \underline{\hspace{2cm}} =$$

Simplifying Fractions - Set 2

F-SIM 2

Instructions: Simplify these fractions using the procedure you learned in the video. Cancel any common factors and remultiply remaining factors to get your final answer.

$$1 \quad \frac{15}{20} = \frac{\cancel{3} \times \cancel{5}}{\cancel{2} \times \cancel{2} \times 5} = \frac{3}{4}$$

$$2 \quad \frac{16}{30} = \underline{\hspace{2cm}} =$$

$$3 \quad \frac{12}{18} = \underline{\hspace{2cm}} =$$

$$4 \quad \frac{15}{45} = \underline{\hspace{2cm}} =$$

$$5 \quad \frac{20}{25} = \underline{\hspace{2cm}} =$$

$$6 \quad \frac{27}{39} = \underline{\hspace{2cm}} =$$

$$7 \quad \frac{14}{21} = \underline{\hspace{2cm}} =$$

$$8 \quad \frac{48}{72} = \underline{\hspace{2cm}} =$$

$$9 \quad \frac{20}{32} = \underline{\hspace{2cm}} =$$

$$10 \quad \frac{32}{40} = \underline{\hspace{2cm}} =$$

$$11 \quad \frac{18}{36} = \underline{\hspace{2cm}} =$$

$$12 \quad \frac{45}{125} = \underline{\hspace{2cm}} =$$

$$13 \quad \frac{42}{63} = \underline{\hspace{2cm}} =$$

$$14 \quad \frac{63}{105} = \underline{\hspace{2cm}} =$$

$$15 \quad \frac{60}{75} = \underline{\hspace{2cm}} =$$

$$16 \quad \frac{42}{140} = \underline{\hspace{2cm}} =$$

$$17 \quad \frac{36}{84} = \underline{\hspace{2cm}} =$$

$$18 \quad \frac{33}{121} = \underline{\hspace{2cm}} =$$

Simpler Simplifying

F-SIM 3

Instructions: Simplify these fractions using the procedure you learned in the video. Look for **composite** common factors like 4, 6, 8 or 10 that will save you some steps.

$$1 \quad \frac{10}{20} = \frac{1 \times 10}{2 \times 10} = \frac{1}{2}$$

$$2 \quad \frac{12}{16} = \underline{\hspace{2cm}} =$$

$$3 \quad \frac{6}{12} = \underline{\hspace{2cm}} =$$

$$4 \quad \frac{10}{60} = \underline{\hspace{2cm}} =$$

$$5 \quad \frac{30}{40} = \underline{\hspace{2cm}} =$$

$$6 \quad \frac{24}{40} = \underline{\hspace{2cm}} =$$

$$7 \quad \frac{16}{20} = \underline{\hspace{2cm}} =$$

$$8 \quad \frac{32}{56} = \underline{\hspace{2cm}} =$$

$$9 \quad \frac{8}{12} = \underline{\hspace{2cm}} =$$

$$10 \quad \frac{30}{80} = \underline{\hspace{2cm}} =$$

$$11 \quad \frac{40}{64} = \underline{\hspace{2cm}} =$$

$$12 \quad \frac{18}{30} = \underline{\hspace{2cm}} =$$

$$13 \quad \frac{60}{70} = \underline{\hspace{2cm}} =$$

$$14 \quad \frac{24}{36} = \underline{\hspace{2cm}} =$$

$$15 \quad \frac{30}{36} = \underline{\hspace{2cm}} =$$

$$16 \quad \frac{40}{60} = \underline{\hspace{2cm}} =$$

$$17 \quad \frac{18}{24} = \underline{\hspace{2cm}} =$$

$$18 \quad \frac{64}{72} = \underline{\hspace{2cm}} =$$

Could it be Simpler?

F-SIM 4

Instructions: Tell whether the fraction could be simplified. Check 'yes' if you think it could be simplified. Check 'no' if you think the fraction is already as simple as it can be.

Examples

$$\frac{1}{2} \quad \begin{array}{l} \input{checkbox} \text{ yes} \\ \input{checkbox} \text{ no} \end{array}$$

already as simple as it can be

$$\frac{2}{4} \quad \begin{array}{l} \input{checkbox} \text{ yes} \\ \input{checkbox} \text{ no} \end{array}$$

this can be simplified

1 $\frac{2}{3}$ yes
 no

2 $\frac{8}{20}$ yes
 no

3 $\frac{5}{10}$ yes
 no

4 $\frac{3}{4}$ yes
 no

5 $\frac{5}{25}$ yes
 no

6 $\frac{7}{9}$ yes
 no

7 $\frac{14}{44}$ yes
 no

8 $\frac{15}{21}$ yes
 no

9 $\frac{1}{16}$ yes
 no

10 $\frac{6}{7}$ yes
 no

11 $\frac{33}{44}$ yes
 no

12 $\frac{6}{15}$ yes
 no

13 $\frac{9}{27}$ yes
 no

14 $\frac{11}{13}$ yes
 no

15 $\frac{3}{8}$ yes
 no

16 $\frac{4}{18}$ yes
 no

17 $\frac{9}{16}$ yes
 no

18 $\frac{8}{64}$ yes
 no

19 $\frac{7}{15}$ yes
 no

20 $\frac{23}{55}$ yes
 no

21 $\frac{3}{30}$ yes
 no

22 $\frac{12}{44}$ yes
 no

23 $\frac{9}{81}$ yes
 no

24 $\frac{13}{26}$ yes
 no