

Simplifying Fractions

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

1. $\frac{8}{16} = \text{---}$

2. $\frac{7}{21} = \text{---}$

3. $\frac{9}{15} = \text{---}$

4. $\frac{2}{10} = \text{---}$

5. $\frac{3}{12} = \text{---}$

6. $\frac{5}{20} = \text{---}$

7. $\frac{8}{20} = \text{---}$

8. $\frac{4}{6} = \text{---}$

9. $\frac{12}{24} = \text{---}$

10. $\frac{10}{15} = \text{---}$

11. $\frac{4}{16} = \text{---}$

12. $\frac{6}{12} = \text{---}$

13. $\frac{4}{16} = \text{---}$

14. $\frac{9}{12} = \text{---}$

15. $\frac{6}{18} = \text{---}$

16. $\frac{10}{30} = \text{---}$

17. $\frac{10}{25} = \text{---}$

18. $\frac{10}{16} = \text{---}$

Challenge: Devise your own for a friend.

Simplifying Fractions Answer Sheet

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

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

2. $\frac{7}{21} = \frac{1}{3}$

3. $\frac{9}{15} = \frac{3}{5}$

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

5. $\frac{3}{12} = \frac{1}{4}$

6. $\frac{5}{20} = \frac{1}{4}$

7. $\frac{8}{20} = \frac{2}{5}$

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

9. $\frac{12}{24} = \frac{1}{2}$

10. $\frac{10}{15} = \frac{2}{3}$

11. $\frac{4}{16} = \frac{1}{4}$

12. $\frac{6}{12} = \frac{1}{2}$

13. $\frac{4}{16} = \frac{1}{4}$

14. $\frac{9}{12} = \frac{3}{4}$

15. $\frac{6}{18} = \frac{1}{3}$

16. $\frac{10}{30} = \frac{1}{3}$

17. $\frac{10}{25} = \frac{2}{5}$

18. $\frac{10}{16} = \frac{5}{8}$

Challenge: Devise your own for a friend.

Simplifying Fractions

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

1. $\frac{4}{16} = \text{---}$

2. $\frac{14}{21} = \text{---}$

3. $\frac{6}{15} = \text{---}$

4. $\frac{18}{34} = \text{---}$

5. $\frac{9}{12} = \text{---}$

6. $\frac{36}{45} = \text{---}$

7. $\frac{12}{20} = \text{---}$

8. $\frac{42}{64} = \text{---}$

9. $\frac{15}{24} = \text{---}$

10. $\frac{15}{35} = \text{---}$

11. $\frac{14}{16} = \text{---}$

12. $\frac{3}{33} = \text{---}$

13. $\frac{9}{18} = \text{---}$

14. $\frac{9}{27} = \text{---}$

15. $\frac{15}{25} = \text{---}$

16. $\frac{18}{54} = \text{---}$

17. $\frac{6}{8} = \text{---}$

18. $\frac{42}{49} = \text{---}$

Challenge: Devise your own for a friend.

Simplifying Fractions Answer Sheet

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

1. $\frac{4}{16} = \frac{1}{4}$

2. $\frac{14}{21} = \frac{2}{3}$

3. $\frac{6}{15} = \frac{2}{5}$

4. $\frac{18}{34} = \frac{9}{17}$

5. $\frac{9}{12} = \frac{3}{4}$

6. $\frac{36}{45} = \frac{4}{5}$

7. $\frac{12}{20} = \frac{3}{5}$

8. $\frac{42}{64} = \frac{21}{32}$

9. $\frac{15}{24} = \frac{5}{8}$

10. $\frac{15}{35} = \frac{3}{7}$

11. $\frac{14}{16} = \frac{7}{8}$

12. $\frac{3}{33} = \frac{1}{11}$

13. $\frac{9}{18} = \frac{1}{2}$

14. $\frac{9}{27} = \frac{1}{3}$

15. $\frac{15}{25} = \frac{3}{5}$

16. $\frac{18}{54} = \frac{1}{3}$

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

18. $\frac{42}{49} = \frac{6}{7}$

Challenge: Devise your own for a friend.

Simplifying Fractions

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

1. $\frac{15}{33} = \frac{\quad}{\quad}$

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

19. $\frac{4}{\quad} = \frac{2}{\quad}$

2. $\frac{12}{15} = \frac{\quad}{\quad}$

11. $\frac{\quad}{45} = \frac{3}{5}$

20. $\frac{\quad}{\quad} = \frac{8}{\quad}$

3. $\frac{9}{36} = \frac{\quad}{\quad}$

12. $\frac{32}{48} = \frac{\quad}{3}$

21. $\frac{\quad}{12} = \frac{\quad}{6}$

4. $\frac{14}{20} = \frac{\quad}{\quad}$

13. $\frac{35}{80} = \frac{7}{\quad}$

22. $\frac{5}{\quad} = \frac{1}{\quad}$

5. $\frac{115}{230} = \frac{\quad}{\quad}$

14. $\frac{\quad}{42} = \frac{1}{3}$

23. $\frac{14}{\quad} = \frac{1}{\quad}$

6. $\frac{14}{49} = \frac{\quad}{\quad}$

15. $\frac{48}{\quad} = \frac{1}{2}$

24. $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $\frac{4}{18} = \frac{\quad}{\quad}$

16. $\frac{18}{72} = \frac{\quad}{4}$

25. $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $\frac{15}{85} = \frac{\quad}{\quad}$

17. $\frac{28}{84} = \frac{1}{\quad}$

26. $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $\frac{6}{50} = \frac{\quad}{\quad}$

18. $\frac{4}{\quad} = \frac{1}{\quad}$

27. $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

Challenge: Devise your own missing number questions for a friend.

Simplifying Fractions Answer Sheet

Aim: use common factors to simplify fractions

Use common factors, simplify the following fractions to their simplest form:

1. $\frac{15}{33} = \frac{5}{11}$

10. $\frac{3}{12} = \frac{1}{4}$

19. $\frac{4}{12} = \frac{1}{3}$

2. $\frac{12}{15} = \frac{4}{5}$

11. $\frac{27}{45} = \frac{3}{5}$

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

3. $\frac{9}{36} = \frac{1}{4}$

12. $\frac{32}{48} = \frac{2}{3}$

21. $\frac{10}{12} = \frac{5}{6}$

4. $\frac{14}{20} = \frac{7}{10}$

13. $\frac{35}{80} = \frac{7}{16}$

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

5. $\frac{115}{230} = \frac{1}{2}$

14. $\frac{14}{42} = \frac{1}{3}$

23. $\frac{14}{14} = 1$

6. $\frac{14}{49} = \frac{2}{7}$

15. $\frac{48}{96} = \frac{1}{2}$

24. $\frac{10}{10} = 1$

7. $\frac{4}{18} = \frac{2}{9}$

16. $\frac{18}{72} = \frac{1}{4}$

25. $\frac{10}{10} = 1$

8. $\frac{15}{85} = \frac{3}{17}$

17. $\frac{28}{84} = \frac{1}{3}$

26. $\frac{10}{10} = 1$

9. $\frac{6}{50} = \frac{3}{25}$

18. $\frac{4}{4} = 1$

27. $\frac{10}{10} = 1$

Challenge: Devise your own missing number questions for a friend.