SIMPLIFYING FRACTIONS PRACTICE SHEET - A

NAME:

SIMPLIFYING MEANS TO MAKE THE NUMBERS OF THE FRACTION SMALLER. TO MAKE EASIER.

HELPFUL EXAMPLE

ASK YOURSELF: WHAT NUMBERS CAN I DIVIDE 6 AND 8 BY?

ANSWER: CAN DIVIDE 6 BY 2 OR 3. CAN DIVIDE 8 BY 2 OR 4.

BUT YOU HAVE TO DO THE SAME TO THE TOP AND BOTTOM, SO HAS TO BE THE SAME NUMBER. **(2)**

ASK YOURSELF: CAN I MAKE THIS ANY SMALLER? BUT REMEMBER, WHAT EVER YOU DO TO THE BOTTOM YOU NEED TO DO TO THE TOP. **(NO)**

$\frac{6}{8} = \frac{\quad}{\quad} \Rightarrow \frac{6}{8} = \frac{\quad}{\quad} \Rightarrow \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$

WRITE EACH FRACTION IN SIMPLEST FORM.

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

2. $\frac{14}{21} = \frac{14}{21} \div \frac{7}{7} = \frac{\quad}{\quad}$

3. DIVIDE BY 2 → $\frac{6}{8} = \frac{3}{4}$ ← DIVIDE BY 2

4. DIVIDE BY 2 → $\frac{8}{10} = \frac{\quad}{\quad}$ ← DIVIDE BY 2

5. DIVIDE BY 3 → $\frac{6}{9} = \frac{\quad}{\quad}$ ← DIVIDE BY 3

6. DIVIDE BY 5 → $\frac{10}{15} = \frac{\quad}{\quad}$ ← DIVIDE BY 5

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

8. $\frac{5}{10} = \frac{\quad}{\quad}$

9. $\frac{4}{6} = \frac{\quad}{\quad}$

10. $\frac{15}{21} = \frac{\quad}{\quad}$

11. $\frac{22}{33} = \frac{\quad}{\quad}$

12. $\frac{14}{21} = \frac{\quad}{\quad}$

13. $\frac{10}{25} = \frac{\quad}{\quad}$

14. $\frac{13}{26} = \frac{\quad}{\quad}$

15. $\frac{3}{18} = \frac{\quad}{\quad}$

16. $\frac{15}{18} = \frac{\quad}{\quad}$

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

18. $\frac{11}{44} = \frac{\quad}{\quad}$

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

20. $\frac{2}{8} = \frac{\quad}{\quad}$

21. $\frac{9}{15} = \frac{\quad}{\quad}$

22. $\frac{6}{27} = \frac{\quad}{\quad}$

23. $\frac{5}{35} = \frac{\quad}{\quad}$

24. $\frac{35}{49} = \frac{\quad}{\quad}$

25. $\frac{24}{33} = \frac{\quad}{\quad}$

26. $\frac{8}{16} = \frac{\quad}{\quad}$

27. $\frac{9}{30} = \frac{\quad}{\quad}$

28. $\frac{18}{27} = \frac{\quad}{\quad}$

29. $\frac{21}{56} = \frac{\quad}{\quad}$

30. $\frac{26}{39} = \frac{\quad}{\quad}$

SIMPLIFYING FRACTIONS PRACTICE SHEET - B

NAME:

SIMPLIFYING MEANS TO MAKE THE NUMBERS OF THE FRACTION SMALLER. TO MAKE EASIER.

HELPFUL EXAMPLE

ASK YOURSELF:
WHAT NUMBERS CAN
I DIVIDE 12 AND 18 BY?

ANSWER:
CAN DIVIDE 12 BY 2, 3, 4 OR 6.
CAN DIVIDE 18 BY 2, 3, 6 OR 9.

ON THIS PROBLEM YOU HAVE A FEW CHOICES. YOU CAN DIVIDE BOTH OF THEM BY 2, 3, OR 6.

$\frac{12}{18} = \frac{\quad}{\quad}$ ⇨ $\frac{12}{18} = \frac{\quad}{\quad}$ → $\frac{12 \div 2}{18 \div 2} = \frac{6 \div 3}{9 \div 3} = \frac{2}{3}$

--------- OR ---------

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

WHAT HAPPENS IF YOU DIVIDE BY 2 OR 3?
WHAT HAPPENS IF YOU DIVIDE BY 6?
EITHER WAY IS CORRECT, BUT ONE
WAY TAKES A LITTLE LONGER.

SIMPLIFY EACH FRACTION.

1. $\frac{20}{30} \div \frac{5}{5} = \frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$
2. $\frac{20}{30} \div \frac{10}{10} = \frac{\quad}{\quad}$
3. $\frac{8}{10} = \frac{\quad}{\quad}$
4. $\frac{12}{14} = \frac{\quad}{\quad}$
5. $\frac{9}{18} = \frac{\quad}{\quad}$
6. $\frac{4}{8} = \frac{\quad}{\quad}$
7. $\frac{12}{36} = \frac{\quad}{\quad}$
8. $\frac{4}{16} = \frac{\quad}{\quad}$
9. $\frac{8}{12} = \frac{\quad}{\quad}$
10. $\frac{44}{66} = \frac{\quad}{\quad}$
11. $\frac{20}{40} = \frac{\quad}{\quad}$
12. $\frac{6}{30} = \frac{\quad}{\quad}$
13. $\frac{14}{28} = \frac{\quad}{\quad}$
14. $\frac{10}{12} = \frac{\quad}{\quad}$
15. $\frac{42}{48} = \frac{\quad}{\quad}$
16. $\frac{7}{21} = \frac{\quad}{\quad}$
17. $\frac{9}{15} = \frac{\quad}{\quad}$
18. $\frac{8}{40} = \frac{\quad}{\quad}$
19. $\frac{2}{8} = \frac{\quad}{\quad}$
20. $\frac{22}{55} = \frac{\quad}{\quad}$
21. $\frac{28}{42} = \frac{\quad}{\quad}$
22. $\frac{15}{24} = \frac{\quad}{\quad}$
23. $\frac{35}{65} = \frac{\quad}{\quad}$
24. $\frac{8}{32} = \frac{\quad}{\quad}$
25. $\frac{6}{18} = \frac{\quad}{\quad}$
26. $\frac{2}{14} = \frac{\quad}{\quad}$
27. $\frac{28}{32} = \frac{\quad}{\quad}$
28. $\frac{10}{22} = \frac{\quad}{\quad}$
29. $\frac{40}{60} = \frac{\quad}{\quad}$
30. $\frac{18}{72} = \frac{\quad}{\quad}$

SIMPLIFYING FRACTIONS PRACTICE SHEET - C

NAME:

SIMPLIFYING MEANS TO MAKE THE NUMBERS OF THE FRACTION SMALLER. TO MAKE EASIER.

SIMPLIFY EACH FRACTION.

1. $\frac{6}{24} = \frac{\quad}{\quad}$	1. $\frac{14}{18} = \frac{\quad}{\quad}$	3. $\frac{5}{20} = \frac{\quad}{\quad}$	4. $\frac{9}{27} = \frac{\quad}{\quad}$
5. $\frac{2}{20} = \frac{\quad}{\quad}$	6. $\frac{24}{32} = \frac{\quad}{\quad}$	7. $\frac{22}{44} = \frac{\quad}{\quad}$	8. $\frac{8}{24} = \frac{\quad}{\quad}$
9. $\frac{12}{40} = \frac{\quad}{\quad}$	10. $\frac{13}{26} = \frac{\quad}{\quad}$	11. $\frac{21}{49} = \frac{\quad}{\quad}$	12. $\frac{20}{28} = \frac{\quad}{\quad}$
13. $\frac{6}{36} = \frac{\quad}{\quad}$	14. $\frac{15}{45} = \frac{\quad}{\quad}$	15. $\frac{33}{66} = \frac{\quad}{\quad}$	16. $\frac{60}{64} = \frac{\quad}{\quad}$
17. $\frac{14}{20} = \frac{\quad}{\quad}$	18. $\frac{32}{56} = \frac{\quad}{\quad}$	19. $\frac{36}{60} = \frac{\quad}{\quad}$	20. $\frac{7}{42} = \frac{\quad}{\quad}$
21. $\frac{17}{34} = \frac{\quad}{\quad}$	22. $\frac{72}{90} = \frac{\quad}{\quad}$	23. $\frac{15}{33} = \frac{\quad}{\quad}$	24. $\frac{9}{36} = \frac{\quad}{\quad}$
25. $\frac{16}{24} = \frac{\quad}{\quad}$	26. $\frac{21}{30} = \frac{\quad}{\quad}$	27. $\frac{20}{34} = \frac{\quad}{\quad}$	28. $\frac{2}{16} = \frac{\quad}{\quad}$
29. $\frac{18}{45} = \frac{\quad}{\quad}$	30. $\frac{6}{42} = \frac{\quad}{\quad}$	31. $\frac{9}{54} = \frac{\quad}{\quad}$	32. $\frac{18}{30} = \frac{\quad}{\quad}$
33. $\frac{16}{56} = \frac{\quad}{\quad}$	34. $\frac{23}{46} = \frac{\quad}{\quad}$	35. $\frac{88}{90} = \frac{\quad}{\quad}$	36. $\frac{18}{54} = \frac{\quad}{\quad}$
37. $\frac{4}{44} = \frac{\quad}{\quad}$	38. $\frac{36}{72} = \frac{\quad}{\quad}$	39. $\frac{48}{120} = \frac{\quad}{\quad}$	40. $\frac{39}{65} = \frac{\quad}{\quad}$