

Simplifying Fractions (including improper fractions)

Grade 3 Fractions Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING FRACTIONS FUN

Simplify the following fractions.

1. $\frac{2}{4} =$ _____

2. $\frac{18}{10} =$ _____

3. $\frac{6}{8} =$ _____

4. $\frac{30}{12} =$ _____

5. $\frac{38}{16} =$ _____

6. $\frac{22}{8} =$ _____

7. $\frac{56}{20} =$ _____

8. $\frac{10}{4} =$ _____

9. $\frac{44}{16} =$ _____

10. $\frac{50}{20} =$ _____

11. $\frac{28}{12} =$ _____

12. $\frac{10}{16} =$ _____

13. $\frac{1}{3} =$ _____

14. $\frac{4}{16} =$ _____

15. $\frac{2}{20} =$ _____

16. $\frac{18}{8} =$ _____

17. $\frac{32}{12} =$ _____

18. $\frac{34}{16} =$ _____

19. $\frac{6}{10} =$ _____

20. $\frac{16}{20} =$ _____

21. $\frac{8}{12} =$ _____

Simplifying Fractions (including improper fractions)

1. $\frac{2}{4} = \frac{1}{2}$ _____	8. $\frac{10}{4} = 2\frac{1}{2}$ _____	15. $\frac{2}{20} = \frac{1}{10}$ _____
2. $\frac{18}{10} = 2\frac{4}{5}$ _____	9. $\frac{44}{16} = 2\frac{3}{4}$ _____	16. $\frac{18}{8} = 2\frac{1}{4}$ _____
3. $\frac{6}{8} = \frac{3}{4}$ _____	10. $\frac{50}{20} = 2\frac{1}{2}$ _____	17. $\frac{32}{12} = 2\frac{2}{3}$ _____
4. $\frac{30}{12} = 2\frac{1}{2}$ _____	11. $\frac{28}{12} = 2\frac{1}{3}$ _____	18. $\frac{34}{16} = 2\frac{1}{8}$ _____
5. $\frac{38}{16} = 2\frac{3}{8}$ _____	12. $\frac{10}{16} = \frac{5}{8}$ _____	19. $\frac{6}{10} = \frac{3}{5}$ _____
6. $\frac{22}{8} = 2\frac{3}{4}$ _____	13. $\frac{1}{3} = \frac{1}{3}$ _____	20. $\frac{16}{20} = \frac{4}{5}$ _____
7. $\frac{56}{20} = 2\frac{4}{5}$ _____	14. $\frac{4}{16} = \frac{1}{4}$ _____	21. $\frac{8}{12} = \frac{2}{3}$ _____

Recall that: Simplifying a fraction means rewriting a fraction using the smallest top and bottom number you can, without changing the value of the fraction. Factoring is useful for simplifying fractions. For example: simplify, $\frac{6}{8} = \underline{\hspace{2cm}}$

1 Factorize both the top and bottom number by replacing them with their prime factors.

$$\frac{6}{8} = \frac{2 \times 3}{2 \times 2 \times 2}$$

2 Check if any of the top and bottom number are the same. Then, cancel out the pair of common factors.

$$\frac{6}{8} = \frac{\cancel{2} \times 3}{\cancel{2} \times 2 \times 2} = \frac{3}{2 \times 2}$$

3 Next, re-multiply any number left over in the top or the bottom of the fraction, to end up with only one number in the top and bottom of the simplified fraction.

$$\frac{6}{8} = \frac{\cancel{2} \times 3}{\cancel{2} \times 2 \times 2} = \frac{3}{2 \times 2} = \frac{3}{4}$$

Therefore, $\frac{6}{8} = \frac{3}{4}$ _____