

Fraction Worksheet

Convert the following to equivalent fractions with the lowest common denominator:

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|--|---|--|--|
| 1. $\frac{1}{3}, \frac{1}{6}$ | 2. $\frac{3}{4}, \frac{5}{16}$ | 3. $\frac{2}{5}, \frac{1}{25}$ | 4. $\frac{1}{4}, \frac{3}{5}$ |
| 5. $\frac{2}{3}, \frac{3}{5}$ | 6. $\frac{5}{6}, \frac{1}{7}$ | 7. $\frac{1}{6}, \frac{3}{8}$ | 8. $\frac{5}{6}, \frac{7}{15}$ |
| 9. $\frac{5}{12}, \frac{13}{15}$ | 10. $\frac{5}{8}, \frac{7}{12}$ | 11. $\frac{4}{9}, \frac{1}{12}$ | 12. $\frac{1}{3}, \frac{5}{8}, \frac{7}{12}$ |
| 13. $\frac{2}{9}, \frac{3}{5}, \frac{7}{15}$ | 14. $\frac{5}{18}, \frac{7}{12}, \frac{4}{9}$ | 15. $\frac{5}{14}, \frac{5}{6}, \frac{1}{7}$ | 16. $\frac{1}{12}, \frac{21}{32}, \frac{3}{8}$ |
| 17. Is $\frac{3}{25}$ larger than $\frac{5}{16}$? | 18. Is $\frac{5}{27}$ smaller than $\frac{3}{17}$? | | |

19. Write the following fractions in ascending order (smallest first): $\frac{1}{2}, \frac{2}{9}, \frac{3}{4}, \frac{7}{18}, \frac{5}{12}$

20. Write the following fractions in descending order (largest first): $\frac{5}{16}, \frac{7}{12}, \frac{17}{24}, \frac{1}{2}, \frac{1}{3}$

Convert the following to improper fraction format:

- | | | | |
|--------------------|--------------------|---------------------|----------------------|
| 1. $1\frac{1}{3}$ | 2. $1\frac{2}{5}$ | 3. $2\frac{1}{4}$ | 4. $1\frac{5}{6}$ |
| 5. $3\frac{3}{8}$ | 6. $2\frac{1}{7}$ | 7. $3\frac{7}{12}$ | 8. $1\frac{2}{15}$ |
| 9. $4\frac{2}{9}$ | 10. $2\frac{5}{8}$ | 11. $4\frac{2}{3}$ | 12. $1\frac{23}{36}$ |
| 13. $6\frac{2}{5}$ | 14. $5\frac{3}{4}$ | 15. $4\frac{7}{12}$ | 16. $8\frac{3}{8}$ |

Convert the following to mixed number format:

- | | | | |
|---------------------|---------------------|--------------------|--------------------|
| 1. $\frac{5}{3}$ | 2. $\frac{3}{2}$ | 3. $\frac{7}{3}$ | 4. $\frac{13}{4}$ |
| 5. $\frac{16}{7}$ | 6. $\frac{11}{9}$ | 7. $\frac{27}{5}$ | 8. $\frac{29}{8}$ |
| 9. $\frac{19}{12}$ | 10. $\frac{49}{15}$ | 11. $\frac{36}{5}$ | 12. $\frac{22}{3}$ |
| 13. $\frac{35}{16}$ | 14. $\frac{37}{32}$ | 15. $\frac{23}{7}$ | 16. $\frac{40}{9}$ |

Fraction Worksheet

Do the following additions with fractions (answer in simplest form):

1. $\frac{2}{3}$ and $\frac{1}{6}$

2. $\frac{1}{4}$ and $\frac{3}{16}$

3. $\frac{1}{3} + \frac{4}{9}$

4. $\frac{1}{4} + \frac{3}{5}$

5. $3 + \frac{5}{6}$

6. $\frac{3}{4} + \frac{1}{6}$

7. $\frac{5}{6} + \frac{2}{7}$

8. $\frac{2}{3}$ and $\frac{5}{9}$

9. $\frac{5}{8} + \frac{5}{12}$

10. $\frac{7}{12}$ and $\frac{5}{18}$

11. $\frac{1}{3} + \frac{1}{4} + \frac{1}{5}$

12. $\frac{4}{9} + \frac{4}{15} + 1$

13. $\frac{5}{12} + \frac{7}{18} + \frac{3}{4}$

14. $\frac{1}{9} + \frac{7}{12} + \frac{3}{4}$

15. 8 more than $\frac{3}{5}$

16. $\frac{5}{12}$ more than $\frac{3}{8}$

Do the following additions with mixed numbers (answer in simplest form):

1. $1\frac{1}{4} + 1\frac{3}{8}$

2. $2\frac{1}{3} + 3\frac{5}{12}$

3. $3\frac{1}{4} + \frac{5}{6}$

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

5. $11\frac{3}{8} + 15\frac{11}{12}$

6. $7\frac{5}{9} + 23\frac{5}{12}$

7. $8\frac{5}{12} + 4\frac{7}{16}$

8. $13 + 2\frac{5}{12}$

9. $\frac{7}{9} + 23\frac{11}{15}$

10. $31\frac{3}{4} + 14\frac{7}{16}$

11. $15\frac{3}{8} + 3\frac{3}{12}$

12. $3\frac{1}{4} + 5\frac{5}{8} + 8\frac{3}{32}$

13. $4\frac{1}{2} + 5\frac{1}{3} + 6\frac{1}{4}$

14. $13\frac{1}{6} + 5\frac{4}{9} + 7\frac{5}{12}$

15. $12\frac{7}{8} + 9\frac{11}{12} + 4\frac{3}{16}$

16. $2\frac{3}{4}$ more than $15\frac{5}{6}$

17. $21\frac{3}{8}$ more than $13\frac{5}{12}$

Subtract the following fractions (answer in simplest form):

1. From $\frac{3}{4}$ take $\frac{1}{2}$

2. Take $\frac{2}{3}$ from $\frac{11}{12}$

3. $\frac{3}{8} - \frac{1}{3}$

4. $\frac{1}{2} - \frac{3}{7}$

5. $\frac{4}{7} - \frac{2}{11}$

6. $5 - \frac{5}{6}$

7. $\frac{5}{6} - \frac{1}{16}$

8. $\frac{7}{12} - \frac{3}{16}$

9. $\frac{7}{12} - \frac{3}{8}$

10. $\frac{5}{6} - \frac{3}{14}$

11. $\frac{4}{15} - \frac{2}{9}$

12. $\frac{5}{8} - \frac{1}{12}$

13. $\frac{5}{8} - \frac{5}{16}$

14. $\frac{5}{12}$ less than $\frac{15}{16}$

15. From $\frac{7}{8}$ take $\frac{5}{12}$

16. Take $\frac{1}{6}$ away from $\frac{13}{16}$

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Subtract the following mixed numbers (answer in simplest form):

1. Take $1\frac{2}{3}$ from $2\frac{11}{12}$

2. From $5\frac{5}{6}$ take $2\frac{3}{4}$

3. $6\frac{2}{3} - 4\frac{1}{4}$

4. $15\frac{3}{5} - \frac{1}{7}$

5. $11 - 2\frac{1}{6}$

6. $12 - 3\frac{3}{7}$

7. $5\frac{11}{12} - 2\frac{5}{8}$

8. $14\frac{5}{6} - 5\frac{1}{9}$

9. $9\frac{1}{16} - 2\frac{5}{6}$

10. $8\frac{3}{16} - 4\frac{7}{12}$

11. $8\frac{1}{12} - 6\frac{4}{15}$

12. $7\frac{2}{9} - 2\frac{4}{15}$

13. $11\frac{7}{16}$ less than $17\frac{5}{12}$

14. From $8\frac{5}{16}$ take $7\frac{1}{6}$

15. $6\frac{3}{7}$ less than $10\frac{1}{6}$

16. Take $5\frac{7}{8}$ from $8\frac{5}{12}$

Multiply the following Fractions (answer in simplest form):

1. $\frac{1}{2} \times \frac{2}{3}$

2. $3 \times \frac{2}{5}$

3. $\frac{1}{8} \times \frac{4}{5}$

4. $\frac{2}{5} \times \frac{15}{16}$

5. $5 \times \frac{3}{8}$

6. $\frac{8}{11} \times \frac{3}{12}$

7. $\frac{7}{10} \times \frac{5}{14}$

8. $\frac{18}{23} \times \frac{13}{27}$

9. $\frac{2}{3} \times \frac{1}{4} \times \frac{3}{5}$

10. $\frac{5}{12} \times \frac{9}{10} \times \frac{1}{3}$

11. $\frac{5}{6} \times 24 \times \frac{3}{15}$

12. $\frac{24}{25} \times \frac{15}{16} \times \frac{4}{5}$

13. What is the product of $\frac{14}{15}$ and $\frac{5}{7}$?

14. Multiply: $\frac{8}{11}, \frac{33}{40}$

15. $\frac{15}{21}$ times $\frac{7}{25}$

16. Find the product of the following fractions: $\frac{16}{18}, \frac{3}{8}$ and $\frac{2}{3}$.

Multiply the following Mixed numbers (answer in simplest form):

1. $1\frac{3}{8} \times \frac{4}{5}$

2. $\frac{8}{11} \times 1\frac{3}{4}$

3. $3\frac{3}{7} \times 1\frac{3}{4}$

4. $1\frac{7}{8} \times 3\frac{5}{9}$

5. $3\frac{3}{11} \times 2\frac{1}{6}$

6. $1\frac{7}{18} \times 15$

7. $1\frac{5}{13} \times 2\frac{1}{12}$

8. $3\frac{1}{3} \times 2\frac{2}{5}$

9. $1\frac{7}{8} \times 6$

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10. $1\frac{5}{7} \times 1\frac{5}{9} \times 2\frac{1}{2}$

11. $3\frac{3}{11} \times 2\frac{2}{5} \times 3\frac{1}{6}$

12. $1\frac{4}{17} \times 3\frac{3}{7} \times 1\frac{1}{8}$

13. $3\frac{3}{4} \times 1\frac{3}{5} \times 2\frac{1}{2}$

 14. What is the product of $3\frac{1}{3}$ and $2\frac{3}{5}$?

 15. Multiply: $1\frac{5}{7}, 2\frac{5}{6}$

 16. Find the product of the following fractions: $3\frac{1}{8}, 2\frac{4}{5}$ and $3\frac{1}{2}$

Divide the following fractions (answer in simplest form):

1. $\frac{2}{3} \div \frac{3}{4}$

2. $\frac{3}{8} \div \frac{1}{5}$

3. $\frac{5}{12} \div \frac{3}{4}$

4. $5 \div \frac{7}{18}$

5. $\frac{14}{15} \div \frac{7}{9}$

6. $\frac{12}{17} \div \frac{4}{5}$

7. $\frac{8}{21} \div 9$

8. $\frac{11}{20} \div 7$

9. $\frac{9}{13} \div \frac{6}{7}$

10. $\frac{7}{12} \div \frac{13}{15}$

11. $\frac{3}{4} \div \frac{2}{5} \div \frac{6}{7}$

12. $\frac{11}{15} \div \frac{4}{5} \div \frac{7}{12}$

13. $\frac{13}{16} \div \frac{21}{24} \div \frac{35}{52}$

 14. How many fractions of size $\frac{3}{4}$ can fit into a fraction of size $\frac{21}{24}$?

 15. A board is measured to be 25 inches long, how many $\frac{1}{4}$'s of an inch is this?

 16. What is the length of each piece if a string $\frac{7}{16}$ of an inch is cut into 6 pieces?

Divide the following mixed numbers (answer in simplest form):

1. $2\frac{3}{5} \div \frac{5}{6}$

2. $\frac{3}{7} \div 1\frac{2}{3}$

3. $2\frac{1}{8} \div 3\frac{1}{7}$

4. $8 \div 2\frac{5}{6}$

5. $1\frac{7}{12} \div 2\frac{3}{4}$

6. $3\frac{5}{9} \div 2\frac{3}{8}$

7. $4\frac{2}{3} \div 7$

8. $2\frac{7}{12} \div 5$

9. $1\frac{3}{5} \div 3\frac{7}{8}$

10. $2\frac{1}{11} \div 3\frac{1}{4}$

11. $2\frac{3}{4} \div 1\frac{5}{12} \div 2\frac{3}{8}$

12. $3\frac{1}{4} \div 6 \div 2\frac{1}{3}$

13. $2\frac{5}{12} \div 1\frac{3}{8} \div 3\frac{1}{3}$

 14. How many pieces of $1\frac{2}{3}$ inch rope can be cut from a rope $16\frac{1}{2}$ inches in length?

 15. What is the length of each piece if a board $10\frac{1}{4}$ inches is cut into 6 pieces?

 16. How many pieces of board $1\frac{3}{4}$ inches in length does it take to get a length of 12 inches?

Fraction Worksheet

Answer Key:

Convert the following to equivalent fractions with the lowest common denominator:

1. $\frac{2}{6}, \frac{1}{6}$	2. $\frac{12}{16}, \frac{5}{16}$	3. $\frac{10}{25}, \frac{1}{25}$	4. $\frac{5}{20}, \frac{12}{20}$
5. $\frac{10}{15}, \frac{9}{15}$	6. $\frac{35}{42}, \frac{6}{42}$	7. $\frac{4}{24}, \frac{9}{24}$	8. $\frac{25}{30}, \frac{14}{30}$
9. $\frac{25}{60}, \frac{52}{60}$	10. $\frac{15}{24}, \frac{14}{24}$	11. $\frac{16}{36}, \frac{3}{36}$	12. $\frac{8}{24}, \frac{15}{24}, \frac{14}{24}$
13. $\frac{10}{45}, \frac{27}{45}, \frac{21}{45}$	14. $\frac{10}{36}, \frac{21}{36}, \frac{16}{36}$	15. $\frac{15}{42}, \frac{35}{42}, \frac{6}{42}$	16. $\frac{8}{96}, \frac{63}{96}, \frac{36}{96}$
17. <i>No</i>	18. <i>No</i>	19. $\frac{2}{9}, \frac{7}{18}, \frac{5}{12}, \frac{1}{2}, \frac{3}{4}$	20. $\frac{17}{24}, \frac{7}{12}, \frac{1}{2}, \frac{1}{3}, \frac{5}{16}$

Convert the following to improper fraction format:

1. $\frac{4}{3}$	2. $\frac{7}{5}$	3. $\frac{9}{4}$	4. $\frac{11}{6}$
5. $\frac{27}{8}$	6. $\frac{15}{7}$	7. $\frac{43}{12}$	8. $\frac{17}{15}$
9. $\frac{38}{9}$	10. $\frac{21}{8}$	11. $\frac{14}{3}$	12. $\frac{59}{36}$
13. $\frac{32}{5}$	14. $\frac{23}{4}$	15. $\frac{55}{12}$	16. $\frac{67}{8}$

Convert the following to mixed number format:

1. $1\frac{2}{3}$	2. $1\frac{1}{2}$	3. $2\frac{1}{3}$	4. $3\frac{1}{4}$
5. $2\frac{2}{7}$	6. $1\frac{2}{9}$	7. $5\frac{2}{5}$	8. $3\frac{5}{8}$
9. $1\frac{7}{12}$	10. $3\frac{4}{15}$	11. $7\frac{1}{5}$	12. $7\frac{1}{3}$
13. $2\frac{3}{16}$	14. $1\frac{5}{32}$	15. $3\frac{2}{7}$	16. $4\frac{4}{9}$

Do the following additions with fractions (answer in simplest form):

1. $\frac{5}{6}$	2. $\frac{7}{16}$	3. $\frac{7}{9}$	4. $\frac{17}{20}$
5. $3\frac{5}{6}$	6. $\frac{11}{12}$	7. $1\frac{5}{42}$	8. $1\frac{2}{9}$
9. $1\frac{1}{24}$	10. $\frac{31}{36}$	11. $\frac{47}{60}$	12. $1\frac{32}{45}$
13. $1\frac{5}{9}$	14. $1\frac{4}{9}$	15. $8\frac{3}{5}$	16. $\frac{19}{24}$

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Do the following additions with mixed numbers (answer in simplest form):

1. $2\frac{5}{8}$	2. $5\frac{3}{4}$	3. $4\frac{1}{12}$	4. $9\frac{5}{24}$
5. $27\frac{7}{24}$	6. $30\frac{35}{36}$	7. $12\frac{41}{48}$	8. $15\frac{5}{12}$
9. $24\frac{23}{45}$	10. $46\frac{3}{16}$	11. $18\frac{5}{8}$	12. $16\frac{31}{32}$
13. $16\frac{1}{12}$	14. $26\frac{1}{36}$	15. $26\frac{47}{48}$	16. $18\frac{7}{12}$
17. $34\frac{19}{24}$			

Subtract the following fractions (answer in simplest form):

1. $\frac{1}{4}$	2. $\frac{1}{4}$	3. $\frac{1}{24}$	4. $\frac{1}{14}$
5. $\frac{30}{77}$	6. $4\frac{1}{6}$	7. $\frac{37}{48}$	8. $\frac{19}{48}$
9. $\frac{5}{24}$	10. $\frac{13}{21}$	11. $\frac{2}{45}$	12. $\frac{13}{24}$
13. $\frac{5}{16}$	14. $\frac{25}{48}$	15. $\frac{11}{24}$	16. $\frac{31}{48}$

Subtract the following mixed numbers (answer in simplest form):

1. $1\frac{1}{4}$	2. $3\frac{1}{12}$	3. $2\frac{5}{12}$	4. $15\frac{16}{35}$
5. $8\frac{5}{6}$	6. $8\frac{4}{7}$	7. $3\frac{7}{24}$	8. $9\frac{13}{18}$
9. $6\frac{11}{48}$	10. $3\frac{29}{48}$	11. $1\frac{49}{60}$	12. $4\frac{43}{45}$
13. $5\frac{47}{48}$	14. $1\frac{7}{48}$	15. $3\frac{31}{42}$	16. $2\frac{13}{24}$

Multiply the following Fractions (answer in simplest form):

1. $\frac{1}{3}$	2. $1\frac{1}{5}$	3. $\frac{1}{10}$	4. $\frac{3}{8}$
5. $1\frac{7}{8}$	6. $\frac{2}{11}$	7. $\frac{1}{4}$	8. $\frac{26}{69}$
9. $\frac{1}{10}$	10. $\frac{1}{8}$	11. 4	12. $\frac{18}{25}$
13. $\frac{2}{3}$	14. $\frac{3}{5}$	15. $\frac{1}{5}$	16. $\frac{2}{9}$

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Multiply the following Mixed numbers (answer in simplest form):

1. $1\frac{1}{10}$	2. $1\frac{3}{11}$	3. 6	4. $6\frac{2}{3}$
5. $7\frac{1}{11}$	6. $20\frac{5}{6}$	7. $2\frac{23}{26}$	8. 8
9. $11\frac{1}{4}$	10. $6\frac{2}{3}$	11. $24\frac{48}{55}$	12. $4\frac{13}{17}$
13. 15	14. $8\frac{2}{3}$	15. $4\frac{6}{7}$	16. $30\frac{5}{8}$

Divide the following fractions (answer in simplest form):

1. $\frac{8}{9}$	2. $1\frac{7}{8}$	3. $\frac{5}{9}$	4. $12\frac{6}{7}$
5. $1\frac{1}{5}$	6. $\frac{15}{17}$	7. $\frac{8}{189}$	8. $\frac{11}{140}$
9. $\frac{21}{26}$	10. $\frac{35}{52}$	11. $2\frac{3}{16}$	12. $1\frac{4}{7}$
13. $1\frac{93}{245}$	14. $1\frac{1}{6}$	15. 100	16. $\frac{7}{96}$ "

Divide the following mixed numbers (answer in simplest form):

1. $3\frac{3}{25}$	2. $\frac{9}{35}$	3. $\frac{119}{176}$	4. $2\frac{14}{17}$
5. $\frac{19}{33}$	6. $1\frac{85}{171}$	7. $\frac{2}{3}$	8. $\frac{31}{60}$
9. $\frac{64}{155}$	10. $\frac{92}{143}$	11. $\frac{264}{323}$	12. $\frac{13}{56}$
13. $\frac{29}{55}$	14. $9\frac{9}{10}$	15. $1\frac{17}{24}$ "	16. $6\frac{6}{7}$