

Name : _____

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Equivalent Fractions

1) $\frac{\quad}{10} = \frac{2}{5}$

11) $\frac{3}{5} = \frac{15}{\quad}$

2) $\frac{4}{\quad} = \frac{1}{5}$

12) $\frac{8}{20} = \frac{\quad}{5}$

3) $\frac{\quad}{3} = \frac{12}{18}$

13) $\frac{15}{\quad} = \frac{3}{4}$

4) $\frac{10}{12} = \frac{\quad}{6}$

14) $\frac{10}{\quad} = \frac{2}{6}$

5) $\frac{3}{6} = \frac{1}{\quad}$

15) $\frac{1}{2} = \frac{4}{\quad}$

6) $\frac{\quad}{16} = \frac{3}{4}$

16) $\frac{\quad}{6} = \frac{1}{2}$

7) $\frac{1}{2} = \frac{\quad}{4}$

17) $\frac{4}{16} = \frac{\quad}{4}$

8) $\frac{10}{15} = \frac{\quad}{3}$

18) $\frac{\quad}{15} = \frac{2}{3}$

9) $\frac{5}{\quad} = \frac{10}{12}$

19) $\frac{2}{\quad} = \frac{8}{20}$

10) $\frac{20}{30} = \frac{\quad}{6}$

20) $\frac{3}{5} = \frac{18}{\quad}$

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Equivalent Fractions

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

11) $\frac{3}{5} = \frac{15}{25}$

2) $\frac{4}{20} = \frac{1}{5}$

12) $\frac{8}{20} = \frac{2}{5}$

3) $\frac{2}{3} = \frac{12}{18}$

13) $\frac{15}{20} = \frac{3}{4}$

4) $\frac{10}{12} = \frac{5}{6}$

14) $\frac{10}{30} = \frac{2}{6}$

5) $\frac{3}{6} = \frac{1}{2}$

15) $\frac{1}{2} = \frac{4}{8}$

6) $\frac{12}{16} = \frac{3}{4}$

16) $\frac{3}{6} = \frac{1}{2}$

7) $\frac{1}{2} = \frac{2}{4}$

17) $\frac{4}{16} = \frac{1}{4}$

8) $\frac{10}{15} = \frac{2}{3}$

18) $\frac{10}{15} = \frac{2}{3}$

9) $\frac{5}{6} = \frac{10}{12}$

19) $\frac{2}{5} = \frac{8}{20}$

10) $\frac{20}{30} = \frac{4}{6}$

20) $\frac{3}{5} = \frac{18}{30}$

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Converting Between Percents, Decimals, and Fractions

Convert Decimal to Percent

$0.95 =$

$0.78 =$

$0.77 =$

$0.19 =$

$0.4 =$

$0.47 =$

Convert Percent to Decimal

$63 \% =$

$9 \% =$

$35 \% =$

$72 \% =$

$41 \% =$

$77 \% =$

Convert Decimal to Fraction

$0.66 =$

$0.05 =$

$0.82 =$

$0.74 =$

$0.56 =$

$0.65 =$

Convert Fraction to Decimal

$\frac{5}{25} =$

$\frac{16}{20} =$

$\frac{6}{50} =$

$\frac{11}{20} =$

$\frac{21}{25} =$

$\frac{12}{20} =$

Convert Fraction to Percent

$\frac{17}{25} =$

$\frac{32}{50} =$

$\frac{11}{50} =$

$\frac{6}{50} =$

$\frac{9}{10} =$

$\frac{11}{20} =$

Convert Percent to Fraction

$49 \% =$

$52 \% =$

$16 \% =$

$62 \% =$

$69 \% =$

$23 \% =$



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Converting Between Percents, Decimals, and Fractions

Convert Decimal to Percent

$$0.95 = 95 \%$$

$$0.78 = 78 \%$$

$$0.77 = 77 \%$$

$$0.19 = 19 \%$$

$$0.4 = 40 \%$$

$$0.47 = 47 \%$$

Convert Percent to Decimal

$$63 \% = 0.63$$

$$9 \% = 0.09$$

$$35 \% = 0.35$$

$$72 \% = 0.72$$

$$41 \% = 0.41$$

$$77 \% = 0.77$$

Convert Decimal to Fraction

$$0.66 = \frac{66}{100} = \frac{33}{50}$$

$$0.05 = \frac{5}{100} = \frac{1}{20}$$

$$0.82 = \frac{82}{100} = \frac{41}{50}$$

$$0.74 = \frac{74}{100} = \frac{37}{50}$$

$$0.56 = \frac{56}{100} = \frac{14}{25}$$

$$0.65 = \frac{65}{100} = \frac{13}{20}$$

Convert Fraction to Decimal

$$\frac{5}{25} = 0.2$$

$$\frac{16}{20} = 0.8$$

$$\frac{6}{50} = 0.12$$

$$\frac{11}{20} = 0.55$$

$$\frac{21}{25} = 0.84$$

$$\frac{12}{20} = 0.6$$

Convert Fraction to Percent

$$\frac{17}{25} = 68 \%$$

$$\frac{32}{50} = 64 \%$$

$$\frac{11}{50} = 22 \%$$

$$\frac{6}{50} = 12 \%$$

$$\frac{9}{10} = 90 \%$$

$$\frac{11}{20} = 55 \%$$

Convert Percent to Fraction

$$49 \% = \frac{49}{100}$$

$$52 \% = \frac{52}{100} = \frac{13}{25}$$

$$16 \% = \frac{16}{100} = \frac{4}{25}$$

$$62 \% = \frac{62}{100} = \frac{31}{50}$$

$$69 \% = \frac{69}{100}$$

$$23 \% = \frac{23}{100}$$



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Adding Fractions

1) $\frac{2}{12} + \frac{1}{3} =$

2) $\frac{9}{18} + \frac{5}{6} =$

3) $\frac{12}{44} + \frac{1}{4} =$

4) $\frac{2}{5} + \frac{7}{10} =$

5) $\frac{9}{11} + \frac{1}{55} =$

6) $\frac{2}{5} + \frac{12}{50} =$

7) $\frac{11}{27} + \frac{4}{9} =$

8) $\frac{5}{21} + \frac{2}{6} =$

9) $\frac{3}{4} + \frac{4}{16} =$

10) $\frac{2}{40} + \frac{3}{5} =$

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Adding Fractions

$$1) \quad \frac{2}{12} + \frac{1}{3} = \quad \frac{2}{12} + \frac{4}{12} = \quad \frac{6}{12} = \quad \frac{1}{2}$$

$$2) \quad \frac{9}{18} + \frac{5}{6} = \quad \frac{9}{18} + \frac{15}{18} = \quad \frac{24}{18} = \quad \frac{4}{3} = \quad 1\frac{1}{3}$$

$$3) \quad \frac{12}{44} + \frac{1}{4} = \quad \frac{12}{44} + \frac{11}{44} = \quad \frac{23}{44}$$

$$4) \quad \frac{2}{5} + \frac{7}{10} = \quad \frac{4}{10} + \frac{7}{10} = \quad \frac{11}{10} = \quad 1\frac{1}{10}$$

$$5) \quad \frac{9}{11} + \frac{1}{55} = \quad \frac{45}{55} + \frac{1}{55} = \quad \frac{46}{55}$$

$$6) \quad \frac{2}{5} + \frac{12}{50} = \quad \frac{20}{50} + \frac{12}{50} = \quad \frac{32}{50} = \quad \frac{16}{25}$$

$$7) \quad \frac{11}{27} + \frac{4}{9} = \quad \frac{11}{27} + \frac{12}{27} = \quad \frac{23}{27}$$

$$8) \quad \frac{5}{21} + \frac{2}{6} = \quad \frac{10}{42} + \frac{14}{42} = \quad \frac{24}{42} = \quad \frac{4}{7}$$

$$9) \quad \frac{3}{4} + \frac{4}{16} = \quad \frac{12}{16} + \frac{4}{16} = \quad \frac{16}{16} = \quad 1$$

$$10) \quad \frac{2}{40} + \frac{3}{5} = \quad \frac{2}{40} + \frac{24}{40} = \quad \frac{26}{40} = \quad \frac{13}{20}$$

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Dividing Fractions

1) $\frac{1}{4} \div \frac{2}{3} =$

2) $\frac{5}{8} \div \frac{1}{7} =$

3) $\frac{7}{10} \div \frac{1}{3} =$

4) $\frac{2}{6} \div \frac{4}{9} =$

5) $\frac{2}{5} \div \frac{5}{9} =$

6) $\frac{7}{8} \div \frac{1}{2} =$

7) $\frac{6}{7} \div \frac{1}{4} =$

8) $\frac{4}{5} \div \frac{1}{3} =$

9) $\frac{1}{9} \div \frac{7}{10} =$

10) $\frac{4}{5} \div \frac{4}{6} =$

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Dividing Fractions

$$1) \quad \frac{1}{4} \div \frac{2}{3} = \frac{1 \times 3}{4 \times 2} = \frac{3}{8}$$

$$2) \quad \frac{5}{8} \div \frac{1}{7} = \frac{5 \times 7}{8 \times 1} = \frac{35}{8} = 4\frac{3}{8}$$

$$3) \quad \frac{7}{10} \div \frac{1}{3} = \frac{7 \times 3}{10 \times 1} = \frac{21}{10} = 2\frac{1}{10}$$

$$4) \quad \frac{2}{6} \div \frac{4}{9} = \frac{2 \times 9}{6 \times 4} = \frac{18}{24} = \frac{3}{4}$$

$$5) \quad \frac{2}{5} \div \frac{5}{9} = \frac{2 \times 9}{5 \times 5} = \frac{18}{25}$$

$$6) \quad \frac{7}{8} \div \frac{1}{2} = \frac{7 \times 2}{8 \times 1} = \frac{14}{8} = \frac{7}{4} = 1\frac{3}{4}$$

$$7) \quad \frac{6}{7} \div \frac{1}{4} = \frac{6 \times 4}{7 \times 1} = \frac{24}{7} = 3\frac{3}{7}$$

$$8) \quad \frac{4}{5} \div \frac{1}{3} = \frac{4 \times 3}{5 \times 1} = \frac{12}{5} = 2\frac{2}{5}$$

$$9) \quad \frac{1}{9} \div \frac{7}{10} = \frac{1 \times 10}{9 \times 7} = \frac{10}{63}$$

$$10) \quad \frac{4}{5} \div \frac{4}{6} = \frac{4 \times 6}{5 \times 4} = \frac{24}{20} = \frac{6}{5} = 1\frac{1}{5}$$

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Converting Improper Fractions to Mixed Numbers

1) $\frac{22}{5} =$ _____

2) $\frac{37}{7} =$ _____

3) $\frac{37}{10} =$ _____

4) $\frac{50}{8} =$ _____

5) $\frac{40}{9} =$ _____

6) $\frac{27}{6} =$ _____

7) $\frac{46}{7} =$ _____

8) $\frac{63}{8} =$ _____

9) $\frac{23}{3} =$ _____

10) $\frac{17}{7} =$ _____

11) $\frac{14}{5} =$ _____

12) $\frac{26}{8} =$ _____

13) $\frac{17}{4} =$ _____

14) $\frac{34}{10} =$ _____

15) $\frac{13}{3} =$ _____

Converting Mixed Numbers to Improper Fractions

1) $8\frac{3}{5} =$ _____

2) $3\frac{1}{2} =$ _____

3) $7\frac{1}{2} =$ _____

4) $4\frac{3}{4} =$ _____

5) $9\frac{8}{9} =$ _____

6) $7\frac{7}{10} =$ _____

7) $6\frac{1}{2} =$ _____

8) $6\frac{1}{2} =$ _____

9) $5\frac{1}{3} =$ _____

10) $5\frac{1}{2} =$ _____

11) $9\frac{2}{5} =$ _____

12) $9\frac{1}{2} =$ _____

13) $4\frac{1}{2} =$ _____

14) $5\frac{5}{8} =$ _____

15) $3\frac{1}{9} =$ _____

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Converting Improper Fractions to Mixed Numbers

1) $\frac{22}{5} = \underline{4\frac{2}{5}}$

2) $\frac{37}{7} = \underline{5\frac{2}{7}}$

3) $\frac{37}{10} = \underline{3\frac{7}{10}}$

4) $\frac{50}{8} = \underline{6\frac{1}{4}}$

5) $\frac{40}{9} = \underline{4\frac{4}{9}}$

6) $\frac{27}{6} = \underline{4\frac{1}{2}}$

7) $\frac{46}{7} = \underline{6\frac{4}{7}}$

8) $\frac{63}{8} = \underline{7\frac{7}{8}}$

9) $\frac{23}{3} = \underline{7\frac{2}{3}}$

10) $\frac{17}{7} = \underline{2\frac{3}{7}}$

11) $\frac{14}{5} = \underline{2\frac{4}{5}}$

12) $\frac{26}{8} = \underline{3\frac{1}{4}}$

13) $\frac{17}{4} = \underline{4\frac{1}{4}}$

14) $\frac{34}{10} = \underline{3\frac{2}{5}}$

15) $\frac{13}{3} = \underline{4\frac{1}{3}}$

Converting Mixed Numbers to Improper Fractions

1) $8\frac{3}{5} = \underline{\frac{43}{5}}$

2) $3\frac{1}{2} = \underline{\frac{7}{2}}$

3) $7\frac{1}{2} = \underline{\frac{15}{2}}$

4) $4\frac{3}{4} = \underline{\frac{19}{4}}$

5) $9\frac{8}{9} = \underline{\frac{89}{9}}$

6) $7\frac{7}{10} = \underline{\frac{77}{10}}$

7) $6\frac{1}{2} = \underline{\frac{13}{2}}$

8) $6\frac{1}{2} = \underline{\frac{13}{2}}$

9) $5\frac{1}{3} = \underline{\frac{16}{3}}$

10) $5\frac{1}{2} = \underline{\frac{11}{2}}$

11) $9\frac{2}{5} = \underline{\frac{47}{5}}$

12) $9\frac{1}{2} = \underline{\frac{19}{2}}$

13) $4\frac{1}{2} = \underline{\frac{9}{2}}$

14) $5\frac{5}{8} = \underline{\frac{45}{8}}$

15) $3\frac{1}{9} = \underline{\frac{28}{9}}$

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Multiplying Mixed Numbers

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

2) $4\frac{7}{9} \times 4\frac{3}{5} =$

3) $4\frac{3}{7} \times 2\frac{1}{2} =$

4) $3\frac{1}{2} \times 3\frac{1}{8} =$

5) $2\frac{3}{5} \times 3\frac{8}{9} =$

6) $2\frac{1}{5} \times 3\frac{5}{7} =$

7) $4\frac{3}{10} \times 4\frac{4}{9} =$

8) $3\frac{2}{3} \times 3\frac{1}{3} =$

9) $3\frac{3}{5} \times 4\frac{1}{5} =$

10) $3\frac{1}{3} \times 4\frac{7}{10} =$

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Multiplying Mixed Numbers

$$1) \quad 3\frac{1}{2} \times 4\frac{5}{9} = \frac{7 \times 41}{2 \times 9} = \frac{287}{18} = 15\frac{17}{18}$$

$$2) \quad 4\frac{7}{9} \times 4\frac{3}{5} = \frac{43 \times 23}{9 \times 5} = \frac{989}{45} = 21\frac{44}{45}$$

$$3) \quad 4\frac{3}{7} \times 2\frac{1}{2} = \frac{31 \times 5}{7 \times 2} = \frac{155}{14} = 11\frac{1}{14}$$

$$4) \quad 3\frac{1}{2} \times 3\frac{1}{8} = \frac{7 \times 25}{2 \times 8} = \frac{175}{16} = 10\frac{15}{16}$$

$$5) \quad 2\frac{3}{5} \times 3\frac{8}{9} = \frac{13 \times 35}{5 \times 9} = \frac{455}{45} = \frac{91}{9} = 10\frac{1}{9}$$

$$6) \quad 2\frac{1}{5} \times 3\frac{5}{7} = \frac{11 \times 26}{5 \times 7} = \frac{286}{35} = 8\frac{6}{35}$$

$$7) \quad 4\frac{3}{10} \times 4\frac{4}{9} = \frac{43 \times 40}{10 \times 9} = \frac{1720}{90} = \frac{172}{9} = 19\frac{1}{9}$$

$$8) \quad 3\frac{2}{3} \times 3\frac{1}{3} = \frac{11 \times 10}{3 \times 3} = \frac{110}{9} = 12\frac{2}{9}$$

$$9) \quad 3\frac{3}{5} \times 4\frac{1}{5} = \frac{18 \times 21}{5 \times 5} = \frac{378}{25} = 15\frac{3}{25}$$

$$10) \quad 3\frac{1}{3} \times 4\frac{7}{10} = \frac{10 \times 47}{3 \times 10} = \frac{470}{30} = \frac{47}{3} = 15\frac{2}{3}$$

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Multiplying Fractions

1) $\frac{2}{5} \times \frac{3}{7} =$

2) $\frac{1}{10} \times \frac{2}{6} =$

3) $\frac{3}{4} \times \frac{4}{7} =$

4) $\frac{8}{9} \times \frac{1}{2} =$

5) $\frac{2}{3} \times \frac{3}{7} =$

6) $\frac{2}{6} \times \frac{1}{2} =$

7) $\frac{1}{2} \times \frac{1}{8} =$

8) $\frac{1}{9} \times \frac{4}{10} =$

9) $\frac{1}{7} \times \frac{3}{10} =$

10) $\frac{1}{2} \times \frac{4}{9} =$

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Multiplying Fractions

$$1) \quad \frac{2}{5} \times \frac{3}{7} = \frac{2 \times 3}{5 \times 7} = \frac{6}{35}$$

$$2) \quad \frac{1}{10} \times \frac{2}{6} = \frac{1 \times 2}{10 \times 6} = \frac{2}{60} = \frac{1}{30}$$

$$3) \quad \frac{3}{4} \times \frac{4}{7} = \frac{3 \times 4}{4 \times 7} = \frac{12}{28} = \frac{3}{7}$$

$$4) \quad \frac{8}{9} \times \frac{1}{2} = \frac{8 \times 1}{9 \times 2} = \frac{8}{18} = \frac{4}{9}$$

$$5) \quad \frac{2}{3} \times \frac{3}{7} = \frac{2 \times 3}{3 \times 7} = \frac{6}{21} = \frac{2}{7}$$

$$6) \quad \frac{2}{6} \times \frac{1}{2} = \frac{2 \times 1}{6 \times 2} = \frac{2}{12} = \frac{1}{6}$$

$$7) \quad \frac{1}{2} \times \frac{1}{8} = \frac{1 \times 1}{2 \times 8} = \frac{1}{16}$$

$$8) \quad \frac{1}{9} \times \frac{4}{10} = \frac{1 \times 4}{9 \times 10} = \frac{4}{90} = \frac{2}{45}$$

$$9) \quad \frac{1}{7} \times \frac{3}{10} = \frac{1 \times 3}{7 \times 10} = \frac{3}{70}$$

$$10) \quad \frac{1}{2} \times \frac{4}{9} = \frac{1 \times 4}{2 \times 9} = \frac{4}{18} = \frac{2}{9}$$

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Subtracting Fractions

1) $\frac{4}{8} - \frac{6}{16} =$

2) $\frac{2}{8} - \frac{6}{24} =$

3) $\frac{6}{7} - \frac{2}{21} =$

4) $\frac{4}{13} - \frac{6}{26} =$

5) $\frac{9}{18} - \frac{3}{9} =$

6) $\frac{2}{13} - \frac{3}{26} =$

7) $\frac{4}{6} - \frac{1}{3} =$

8) $\frac{6}{14} - \frac{2}{7} =$

9) $\frac{4}{13} - \frac{7}{26} =$

10) $\frac{5}{7} - \frac{1}{14} =$

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Subtracting Fractions

$$1) \quad \frac{4}{8} - \frac{6}{16} = \quad \frac{8}{16} - \frac{6}{16} = \quad \frac{2}{16} = \quad \frac{1}{8}$$

$$2) \quad \frac{2}{8} - \frac{6}{24} = \quad \frac{6}{24} - \frac{6}{24} = \quad 0$$

$$3) \quad \frac{6}{7} - \frac{2}{21} = \quad \frac{18}{21} - \frac{2}{21} = \quad \frac{16}{21}$$

$$4) \quad \frac{4}{13} - \frac{6}{26} = \quad \frac{8}{26} - \frac{6}{26} = \quad \frac{2}{26} = \quad \frac{1}{13}$$

$$5) \quad \frac{9}{18} - \frac{3}{9} = \quad \frac{9}{18} - \frac{6}{18} = \quad \frac{3}{18} = \quad \frac{1}{6}$$

$$6) \quad \frac{2}{13} - \frac{3}{26} = \quad \frac{4}{26} - \frac{3}{26} = \quad \frac{1}{26}$$

$$7) \quad \frac{4}{6} - \frac{1}{3} = \quad \frac{4}{6} - \frac{2}{6} = \quad \frac{2}{6} = \quad \frac{1}{3}$$

$$8) \quad \frac{6}{14} - \frac{2}{7} = \quad \frac{6}{14} - \frac{4}{14} = \quad \frac{2}{14} = \quad \frac{1}{7}$$

$$9) \quad \frac{4}{13} - \frac{7}{26} = \quad \frac{8}{26} - \frac{7}{26} = \quad \frac{1}{26}$$

$$10) \quad \frac{5}{7} - \frac{1}{14} = \quad \frac{10}{14} - \frac{1}{14} = \quad \frac{9}{14}$$