

Fractions - ANSWERS

Adding and Subtracting Fractions

1) $\frac{23}{30}$

2) $\frac{7}{15}$

3) $\frac{19}{24}$

4) $\frac{5}{14}$

5) $\frac{13}{15}$

6) $\frac{7}{20}$

7) $\frac{11}{30}$

8) $\frac{1}{12}$

9) $\frac{17}{24}$

10) $\frac{4}{15}$

11) $\frac{11}{14}$

12) $\frac{5}{28}$

Multiplying Fractions

1) $\frac{8}{15}$

2) $\frac{9}{28}$

3) $\frac{35}{48}$

4) $\frac{10}{27}$

5) $\frac{7}{12}$

6) $\frac{7}{25}$

7) $\frac{2}{3}$

8) $\frac{3}{4}$

Dividing Fractions

1) $1\frac{7}{8}$

2) $1\frac{1}{5}$

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

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

5) $\frac{32}{35}$

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

7) $\frac{21}{25}$

8) $2\frac{4}{5}$

Changing Mixed Numbers to Improper (Top Heavy) Fractions

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

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

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

4) $3\frac{2}{5} = \frac{17}{5}$

5) $2\frac{5}{6} = \frac{17}{6}$

6) $1\frac{3}{7} = \frac{10}{7}$

7) $4\frac{3}{8} = \frac{35}{8}$

8) $5\frac{4}{7} = \frac{39}{7}$

9) $6\frac{1}{5} = \frac{31}{5}$

10) $4\frac{2}{3} = \frac{14}{3}$

11) $7\frac{1}{4} = \frac{29}{4}$

12) $10\frac{1}{2} = \frac{21}{2}$

Adding, subtracting, multiplying and dividing mixed numbers.

1) $1\frac{3}{4} + 1\frac{1}{3} = \frac{37}{12} = 3\frac{1}{12}$

2) $1\frac{3}{4} - 1\frac{1}{3} = \frac{5}{12}$

3) $1\frac{3}{4} \times 1\frac{1}{3} = \frac{28}{12} = \frac{7}{3}$

4) $1\frac{3}{4} \div 1\frac{1}{3} = 1\frac{5}{16}$

5) $2\frac{1}{3} + 1\frac{1}{2} = \frac{23}{6} = 3\frac{5}{6}$

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

7) $2\frac{1}{3} \times 1\frac{1}{2} = \frac{14}{6} = \frac{7}{2} = 3\frac{1}{2}$

8) $2\frac{1}{3} \div 1\frac{1}{2} = \frac{14}{9} = 1\frac{5}{9}$

9) $3\frac{1}{2} + 2\frac{1}{3} = \frac{35}{6} = 5\frac{5}{6}$

10) $3\frac{1}{2} - 2\frac{1}{3} = \frac{7}{6} = 1\frac{1}{6}$

11) $3\frac{1}{2} \times 2\frac{1}{3} = \frac{49}{6} = 8\frac{1}{6}$

12) $2\frac{1}{2} \div 3\frac{1}{3} = \frac{15}{20} = \frac{3}{4}$

Order of Operations

1) $\frac{1}{2} \times \frac{1}{3} + \frac{1}{4} \times \frac{1}{5} = \frac{13}{60}$

2) $\frac{1}{2} \times \left(\frac{1}{3} + \frac{1}{4}\right) \times \frac{1}{5} = \frac{7}{120}$

3) $\left(\frac{1}{2} + \frac{1}{3}\right)^2 - \left(\frac{1}{4} + \frac{1}{5}\right)^2 = \frac{1771}{3600}$