

Násobení zlomků – I

A

$$\frac{1}{2} \cdot \frac{1}{3} =$$

$$\frac{2}{3} \cdot \frac{4}{5} =$$

$$\frac{2}{6} \cdot \frac{5}{7} =$$

$$\frac{10}{20} \cdot \frac{5}{25} =$$

$$\frac{8}{12} \cdot \frac{7}{14} =$$

$$3 \cdot \frac{7}{10} =$$

$$\frac{5}{6} \cdot 2 =$$

$$\frac{0}{21} \cdot \frac{45}{60} =$$

$$\frac{16}{30} \cdot \frac{25}{24} =$$

$$\frac{80}{100} \cdot \frac{60}{120} =$$

B

$$\frac{1}{3} \cdot \frac{1}{4} =$$

$$\frac{7}{8} \cdot \frac{1}{5} =$$

$$\frac{4}{8} \cdot \frac{5}{9} =$$

$$\frac{4}{12} \cdot \frac{20}{40} =$$

$$\frac{9}{27} \cdot \frac{4}{16} =$$

$$\frac{9}{10} \cdot 2 =$$

$$3 \cdot \frac{7}{9} =$$

$$\frac{40}{55} \cdot \frac{0}{17} =$$

$$\frac{18}{32} \cdot \frac{8}{27} =$$

$$\frac{20}{22} \cdot \frac{55}{80} =$$

C

$$\frac{1}{5} \cdot \frac{1}{2} =$$

$$\frac{4}{5} \cdot \frac{3}{7} =$$

$$\frac{5}{10} \cdot \frac{1}{8} =$$

$$\frac{20}{30} \cdot \frac{5}{15} =$$

$$\frac{6}{18} \cdot \frac{15}{25} =$$

$$4 \cdot \frac{3}{10} =$$

$$\frac{7}{8} \cdot 2 =$$

$$\frac{0}{19} \cdot \frac{60}{66} =$$

$$\frac{12}{33} \cdot \frac{22}{18} =$$

$$\frac{72}{80} \cdot \frac{50}{90} =$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0
30 - 28	27 - 22	21 - 13	12 - 7	6 - 0

Násobení zlomků – I - řešení

A

$$\frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$$

$$\frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$

$$\frac{2}{6} \cdot \frac{5}{7} = \frac{5}{21}$$

$$\frac{10}{20} \cdot \frac{5}{25} = \frac{1}{10}$$

$$\frac{8}{12} \cdot \frac{7}{14} = \frac{1}{3}$$

$$3 \cdot \frac{7}{10} = \frac{21}{10} = 2 \frac{1}{10}$$

$$\frac{5}{6} \cdot 2 = \frac{10}{6} = 1 \frac{2}{3}$$

$$\frac{0}{21} \cdot \frac{45}{60} = 0$$

$$\frac{16}{30} \cdot \frac{25}{24} = \frac{5}{9}$$

$$\frac{80}{100} \cdot \frac{60}{120} = \frac{2}{5}$$

B

$$\frac{1}{3} \cdot \frac{1}{4} = \frac{1}{12}$$

$$\frac{7}{8} \cdot \frac{1}{5} = \frac{7}{40}$$

$$\frac{4}{8} \cdot \frac{5}{9} = \frac{5}{18}$$

$$\frac{4}{12} \cdot \frac{20}{40} = \frac{1}{6}$$

$$\frac{9}{27} \cdot \frac{4}{16} = \frac{1}{12}$$

$$\frac{9}{10} \cdot 2 = \frac{18}{10} = 1 \frac{4}{5}$$

$$3 \cdot \frac{7}{9} = \frac{21}{9} = 2 \frac{1}{3}$$

$$\frac{40}{55} \cdot \frac{0}{17} = 0$$

$$\frac{18}{32} \cdot \frac{8}{27} = \frac{1}{6}$$

$$\frac{20}{22} \cdot \frac{55}{80} = \frac{5}{8}$$

C

$$\frac{1}{5} \cdot \frac{1}{2} = \frac{1}{10}$$

$$\frac{4}{5} \cdot \frac{3}{7} = \frac{12}{35}$$

$$\frac{5}{10} \cdot \frac{1}{8} = \frac{1}{16}$$

$$\frac{20}{30} \cdot \frac{5}{15} = \frac{2}{9}$$

$$\frac{6}{18} \cdot \frac{15}{25} = \frac{1}{5}$$

$$4 \cdot \frac{3}{10} = \frac{12}{10} = 1 \frac{1}{5}$$

$$\frac{7}{8} \cdot 2 = \frac{14}{8} = 1 \frac{3}{4}$$

$$\frac{0}{19} \cdot \frac{60}{66} = 0$$

$$\frac{12}{33} \cdot \frac{22}{18} = \frac{4}{9}$$

$$\frac{72}{80} \cdot \frac{50}{90} = \frac{1}{2}$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0
30 - 28	27 - 22	21 - 13	12 - 7	6 - 0

Násobení zlomků – II

A

$$\frac{10}{16} \cdot \frac{8}{12} =$$

$$\frac{11}{12} \cdot \frac{18}{22} =$$

$$\frac{27}{36} \cdot \frac{24}{30} =$$

$$\frac{24}{30} \cdot \frac{5}{36} =$$

$$3 \cdot \frac{4}{9} =$$

$$\frac{9}{10} \cdot 2 =$$

$$\frac{3}{5} \cdot 1\frac{1}{6} =$$

$$2\frac{1}{5} \cdot 1\frac{5}{11} =$$

$$1\frac{3}{5} \cdot 2\frac{1}{8} =$$

$$3\frac{1}{2} \cdot 1\frac{1}{2} =$$

B

$$\frac{12}{20} \cdot \frac{16}{24} =$$

$$\frac{16}{30} \cdot \frac{24}{36} =$$

$$\frac{15}{20} \cdot \frac{45}{50} =$$

$$\frac{5}{39} \cdot \frac{26}{30} =$$

$$\frac{7}{15} \cdot 3 =$$

$$2 \cdot \frac{11}{12} =$$

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

$$1\frac{3}{4} \cdot 2\frac{2}{7} =$$

$$2\frac{4}{9} \cdot 1\frac{4}{5} =$$

$$1\frac{1}{4} \cdot 2\frac{2}{3} =$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0

Násobení zlomků – II - řešení

A

$$\frac{10}{16} \cdot \frac{8}{12} = \frac{8}{15}$$

$$\frac{11}{12} \cdot \frac{18}{22} = \frac{3}{4}$$

$$\frac{27}{36} \cdot \frac{24}{30} = \frac{1}{5}$$

$$\frac{24}{30} \cdot \frac{5}{36} = \frac{1}{3}$$

$$3 \cdot \frac{4}{9} = \frac{1}{3}$$

$$\frac{9}{10} \cdot 2 = 1\frac{1}{3}$$

$$\frac{3}{5} \cdot 1\frac{1}{6} = \frac{7}{10}$$

$$2\frac{1}{5} \cdot 1\frac{5}{11} = 3\frac{1}{5}$$

$$1\frac{3}{5} \cdot 2\frac{1}{8} = 3\frac{2}{5}$$

$$3\frac{1}{2} \cdot 1\frac{1}{2} = 5\frac{1}{4}$$

B

$$\frac{12}{20} \cdot \frac{16}{24} = \frac{2}{5}$$

$$\frac{16}{30} \cdot \frac{24}{36} = \frac{16}{45}$$

$$\frac{15}{20} \cdot \frac{45}{50} = \frac{27}{40}$$

$$\frac{5}{39} \cdot \frac{26}{30} = \frac{1}{9}$$

$$\frac{7}{15} \cdot 3 = 1\frac{2}{5}$$

$$2 \cdot \frac{11}{12} = 1\frac{5}{6}$$

$$\frac{2}{7} \cdot 1\frac{1}{4} = \frac{5}{14}$$

$$1\frac{3}{4} \cdot 2\frac{2}{7} = 4$$

$$2\frac{4}{9} \cdot 1\frac{4}{5} = 4\frac{2}{5}$$

$$1\frac{1}{4} \cdot 2\frac{2}{3} = 3\frac{1}{3}$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0

Dělení zlomků – I

A

$$\frac{1}{2} : \frac{3}{5} =$$

$$\frac{3}{7} : \frac{4}{5} =$$

$$\frac{2}{7} : \frac{4}{8} =$$

$$\frac{15}{16} : \frac{20}{24} =$$

$$\frac{4}{8} : \frac{9}{18} =$$

$$\frac{6}{10} : \frac{12}{20} =$$

$$6 : \frac{1}{2} =$$

$$\frac{3}{4} : 2 =$$

$$1 : \frac{1}{3} =$$

$$\frac{7}{15} : 14 =$$

B

$$\frac{2}{5} : \frac{1}{3} =$$

$$\frac{2}{9} : \frac{5}{7} =$$

$$\frac{6}{7} : \frac{4}{5} =$$

$$\frac{12}{15} : \frac{20}{25} =$$

$$\frac{14}{21} : \frac{10}{20} =$$

$$\frac{30}{40} : \frac{9}{12} =$$

$$5 : \frac{1}{3} =$$

$$\frac{2}{3} : 2 =$$

$$3 : \frac{1}{2} =$$

$$\frac{9}{16} : 18 =$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0

Dělení zlomků – I - řešení

A

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

$$\frac{3}{7} : \frac{4}{5} = \frac{15}{28}$$

$$\frac{2}{7} : \frac{4}{8} = \frac{4}{7}$$

$$\frac{15}{16} : \frac{20}{24} = \frac{9}{16}$$

$$\frac{4}{8} : \frac{9}{18} = 1$$

$$\frac{6}{10} : \frac{12}{20} = 1$$

$$6 : \frac{1}{2} = 12$$

$$\frac{3}{4} : 2 = \frac{3}{8}$$

$$1 : \frac{1}{3} = 3$$

$$\frac{7}{15} : 14 = \frac{1}{30}$$

B

$$\frac{2}{5} : \frac{1}{3} = 1 \frac{1}{5}$$

$$\frac{2}{9} : \frac{5}{7} = \frac{14}{45}$$

$$\frac{6}{7} : \frac{4}{5} = 1 \frac{1}{14}$$

$$\frac{12}{15} : \frac{20}{25} = 1$$

$$\frac{14}{21} : \frac{10}{20} = 1 \frac{1}{3}$$

$$\frac{30}{40} : \frac{9}{12} = 1$$

$$5 : \frac{1}{3} = 15$$

$$\frac{2}{3} : 2 = \frac{1}{3}$$

$$3 : \frac{1}{2} = 6$$

$$\frac{9}{16} : 18 = \frac{1}{32}$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0

Dělení zlomků – II

C

$$1\frac{1}{2} : \frac{3}{4} =$$

$$2\frac{3}{5} : \frac{9}{10} =$$

$$\frac{6}{7} : 1\frac{3}{7} =$$

$$\frac{2}{3} : 2\frac{5}{6} =$$

$$6\frac{1}{3} : 2 =$$

$$4\frac{1}{5} : 3 =$$

$$0 : 1\frac{1}{13} =$$

$$2\frac{1}{6} : 1\frac{1}{9} =$$

$$7 : 1\frac{1}{4} =$$

$$3\frac{2}{3} : 6\frac{5}{6} =$$

D

$$1\frac{1}{4} : \frac{5}{8} =$$

$$3\frac{4}{5} : \frac{7}{10} =$$

$$\frac{7}{8} : 1\frac{5}{8} =$$

$$\frac{2}{5} : 2\frac{7}{10} =$$

$$4\frac{1}{2} : 2 =$$

$$3\frac{1}{5} : 3 =$$

$$0 : 1\frac{1}{11} =$$

$$2\frac{1}{4} : 1\frac{1}{8} =$$

$$8 : 2\frac{1}{4} =$$

$$4\frac{3}{4} : 2\frac{7}{8} =$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0

Dělení zlomků – II - řešení

C

$$1\frac{1}{2} : \frac{3}{4} = 2$$

$$2\frac{3}{5} : \frac{9}{10} = 2\frac{8}{9}$$

$$\frac{6}{7} : 1\frac{3}{7} = \frac{3}{5}$$

$$\frac{2}{3} : 2\frac{5}{6} = \frac{4}{17}$$

$$6\frac{1}{3} : 2 = 3\frac{1}{6}$$

$$4\frac{1}{5} : 3 = 1\frac{2}{5}$$

$$0 : 1\frac{1}{13} = 0$$

$$2\frac{1}{6} : 1\frac{1}{9} = 1\frac{19}{20}$$

$$7 : 1\frac{1}{4} = 5\frac{3}{5}$$

$$3\frac{2}{3} : 6\frac{5}{6} = \frac{22}{41}$$

D

$$1\frac{1}{4} : \frac{5}{8} = 2$$

$$3\frac{4}{5} : \frac{7}{10} = 5\frac{3}{7}$$

$$\frac{7}{8} : 1\frac{5}{8} = \frac{7}{13}$$

$$\frac{2}{5} : 2\frac{7}{10} = \frac{4}{27}$$

$$4\frac{1}{2} : 2 = 2\frac{1}{4}$$

$$3\frac{1}{5} : 3 = 1\frac{1}{15}$$

$$0 : 1\frac{1}{11} = 0$$

$$2\frac{1}{4} : 1\frac{1}{8} = 2$$

$$8 : 2\frac{1}{4} = 3\frac{5}{9}$$

$$4\frac{3}{4} : 2\frac{7}{8} = 1\frac{15}{23}$$

1	2	3	4	5
10 - 9	8 - 7	6 - 4	3 - 2	1 - 0
20 - 18	17 - 14	13 - 8	7 - 4	3 - 0