

Fractions Part 2

Exercise Worksheet 3.2 Solutions

1. Solve the following:

$$\text{i.} \quad 24 \times \frac{8}{15} = \frac{192}{15} = 12 \frac{12}{15} = 12 \frac{4}{5}$$

$$\text{ii.} \quad 10 \times \frac{7}{10} = \frac{70}{10} = 7$$

$$\text{iii.} \quad 11 \times \frac{3}{7} = \frac{33}{7} = 4 \frac{5}{7}$$

$$\text{iv.} \quad 19 \times \frac{14}{23} = \frac{266}{23} = 11 \frac{13}{23}$$

$$\text{v.} \quad 20 \times \frac{12}{15} = \frac{240}{15} = 16$$

$$\text{vi.} \quad 24 \times \frac{10}{12} = \frac{240}{12} = 20$$

$$\text{vii.} \quad 9 \times \frac{15}{24} = \frac{135}{24} = 5 \frac{15}{24} = 5 \frac{5}{8}$$

$$\text{viii.} \quad 20 \times \frac{17}{27} = \frac{340}{27} = 12 \frac{16}{27}$$

$$\text{ix.} \quad 16 \times \frac{11}{15} = \frac{176}{15} = 11 \frac{11}{15}$$

$$\text{x.} \quad 14 \times \frac{19}{34} = \frac{266}{34} = 7 \frac{28}{34} = 7 \frac{14}{17}$$

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2. Solve the following:

$$\text{i.} \quad \frac{7}{8} \times \frac{6}{8} = \frac{42}{64} = \frac{21}{32}$$

$$\text{ii.} \quad \frac{5}{6} \times \frac{10}{12} = \frac{50}{72} = \frac{25}{36}$$

$$\text{iii.} \quad \frac{8}{11} \times \frac{8}{12} = \frac{64}{132} = \frac{16}{33}$$

$$\text{iv.} \quad \frac{8}{11} \times \frac{6}{10} = \frac{48}{110} = \frac{24}{55}$$

$$\text{v.} \quad \frac{8}{10} \times \frac{6}{11} = \frac{48}{110} = \frac{24}{55}$$

$$\text{vi.} \quad \frac{5}{7} \times \frac{10}{13} = \frac{50}{91}$$

$$\text{vii.} \quad \frac{3}{5} \times \frac{5}{6} = \frac{15}{30} = \frac{1}{2}$$

$$\text{viii.} \quad \frac{10}{19} \times \frac{4}{6} = \frac{40}{114} = \frac{20}{57}$$

$$\text{ix.} \quad \frac{4}{7} \times \frac{8}{10} = \frac{32}{70} = \frac{16}{35}$$

$$\text{x.} \quad \frac{5}{9} \times \frac{9}{16} = \frac{45}{144} = \frac{5}{16}$$

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3. Solve the following:

$$\text{i.} \quad \frac{8}{10} \times \frac{5}{10} \times \frac{9}{11} = \frac{360}{1100} = \frac{18}{55}$$

$$\text{ii.} \quad \frac{10}{19} \times \frac{9}{15} \times \frac{7}{11} = \frac{630}{3135} = \frac{42}{209}$$

$$\text{iii.} \quad \frac{7}{11} \times \frac{3}{4} \times \frac{5}{8} = \frac{105}{352}$$

$$\text{iv.} \quad \frac{9}{12} \times \frac{3}{6} \times \frac{7}{13} = \frac{189}{936} = \frac{21}{104}$$

$$\text{v.} \quad \frac{10}{11} \times \frac{3}{5} \times \frac{4}{8} = \frac{120}{440} = \frac{3}{11}$$

$$\text{vi.} \quad \frac{9}{13} \times \frac{10}{14} \times \frac{7}{8} = \frac{630}{1456} = \frac{45}{104}$$

$$\text{vii.} \quad \frac{10}{13} \times \frac{9}{17} \times \frac{7}{13} = \frac{630}{2873}$$

$$\text{viii.} \quad \frac{5}{7} \times \frac{8}{13} \times \frac{4}{6} = \frac{160}{546} = \frac{80}{273}$$

$$\text{ix.} \quad \frac{3}{5} \times \frac{5}{6} \times \frac{5}{10} = \frac{75}{300} = \frac{1}{4}$$

$$\text{x.} \quad \frac{3}{4} \times \frac{10}{20} \times \frac{10}{13} = \frac{300}{1040} = \frac{15}{52}$$

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4. Solve the following:

$$\text{i. } 7 \frac{6}{9} \times 7 \frac{5}{8} \times 6 \frac{4}{7} = \frac{193614}{504} = 384 \frac{78}{504} = 384 \frac{13}{84}$$

$$\text{ii. } 3 \frac{4}{5} \times 8 \frac{2}{3} \times 5 \frac{5}{8} = \frac{22230}{120} = 185 \frac{30}{120} = 185 \frac{1}{4}$$

$$\text{iii. } 6 \frac{9}{13} \times 7 \frac{3}{6} \times 5 \frac{6}{10} = \frac{219240}{780} = 281 \frac{60}{780} = 281 \frac{1}{13}$$

$$\text{iv. } 7 \frac{10}{12} \times 3 \frac{7}{8} \times 4 \frac{3}{6} = \frac{78678}{576} = 136 \frac{342}{576} = 136 \frac{19}{32}$$

$$\text{v. } 2 \frac{8}{13} \times 5 \frac{10}{17} \times 4 \frac{9}{13} = \frac{197030}{2873} = 68 \frac{1666}{2873} = 68 \frac{98}{169}$$

$$\text{vi. } 8 \frac{5}{9} \times 6 \frac{6}{9} \times 8 \frac{10}{19} = \frac{748440}{1539} = 486 \frac{486}{1539} = 486 \frac{6}{19}$$

$$\text{vii. } 3 \frac{3}{5} \times 8 \frac{3}{4} \times 2 \frac{4}{5} = \frac{8820}{100} = 88 \frac{20}{100} = 88 \frac{1}{5}$$

$$\text{viii. } 7 \frac{9}{16} \times 4 \frac{5}{9} \times 7 \frac{2}{4} = \frac{148830}{576} = 258 \frac{222}{576} = 258 \frac{37}{96}$$

$$\text{ix. } 4 \frac{3}{4} \times 3 \frac{2}{4} \times 4 \frac{6}{8} = \frac{10108}{128} = 78 \frac{124}{128} = 78 \frac{31}{32}$$

$$\text{x. } 3 \frac{4}{5} \times 6 \frac{6}{9} \times 7 \frac{8}{16} = \frac{136800}{720} = 190 \frac{0}{720} = 190 \frac{0}{1}$$

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5. Solve the following:

$$\text{i.} \quad \frac{2}{3} \times \frac{3}{4} = \frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$$

$$\text{ii.} \quad \frac{6}{10} \times \frac{7}{12} = \frac{6}{10} \times \frac{7}{12} = \frac{42}{120} = \frac{7}{20}$$

$$\text{iii.} \quad \frac{7}{12} \times \frac{5}{6} = \frac{7}{12} \times \frac{5}{6} = \frac{35}{72} = \frac{35}{72}$$

$$\text{iv.} \quad \frac{5}{9} \times \frac{4}{5} = \frac{5}{9} \times \frac{4}{5} = \frac{20}{45} = \frac{4}{9}$$

$$\text{v.} \quad \frac{4}{5} \times \frac{7}{12} = \frac{4}{5} \times \frac{7}{12} = \frac{28}{60} = \frac{7}{15}$$

$$\text{vi.} \quad \frac{8}{10} \times \frac{10}{11} = \frac{8}{10} \times \frac{10}{11} = \frac{80}{110} = \frac{8}{11}$$

$$\text{vii.} \quad \frac{6}{11} \times \frac{10}{19} = \frac{6}{11} \times \frac{10}{19} = \frac{60}{209} = \frac{60}{209}$$

$$\text{viii.} \quad \frac{2}{4} \times \frac{6}{10} = \frac{2}{4} \times \frac{6}{10} = \frac{12}{40} = \frac{3}{10}$$

$$\text{ix.} \quad \frac{6}{9} \times \frac{9}{10} = \frac{6}{9} \times \frac{9}{10} = \frac{54}{90} = \frac{3}{5}$$

$$\text{x.} \quad \frac{5}{8} \times \frac{7}{13} = \frac{5}{8} \times \frac{7}{13} = \frac{35}{104} = \frac{35}{104}$$