Division by Unit Fractions

Practice 4D: Chapter 10, pages 30-31

Compute each quotient. Give your answer in simplest form.

$5 \div \frac{1}{6} =$

$3\frac{5}{7} \div \frac{1}{5} =$

$\frac{5}{6} \div \frac{1}{2} =$

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

$5 \div \left(\frac{1}{8} \div \frac{1}{4}\right) =$

$4\frac{2}{9} \div \frac{1}{8} =$

$5\frac{3}{7} \div \frac{1}{21} =$

$\left(\frac{7}{8} \div \frac{1}{3}\right) \div \frac{1}{4} =$

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Compute each quotient. Give your answer in simplest form.

$4\frac{8}{9} \div \frac{1}{9} =$

$2 \div \frac{1}{7} =$

$3\frac{1}{3} \div \frac{1}{11} =$

$\frac{1}{18} \div \frac{1}{18} =$

$\left(16 \div \frac{1}{3}\right) \div \frac{1}{2} =$

$12 \div \frac{1}{14} =$

$\frac{7}{9} \div \left(\frac{1}{10} \div \frac{1}{2}\right) =$

$3\frac{3}{8} \div \frac{1}{12} =$

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Fill in the blank in each equation below with the correct number in simplest form.

$\square \div \frac{1}{7} = 21$

$\square \div \frac{1}{9} = 20$

$\square \div \frac{1}{30} = 90$

$\square \div \frac{1}{5} = 30$

$\square \div \frac{1}{22} = 16$

$\square \div \frac{1}{13} = 221$

$\square \div \frac{1}{42} = 60$

$\square \div \frac{1}{16} = 72$

Division by Unit Fractions Key

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$5 \div \frac{1}{6} = 5 \times 6 = \mathbf{30}$

$3\frac{5}{7} \div \frac{1}{5} = 3\frac{5}{7} \times 5 = 15 + \frac{25}{7} = 15 + 3\frac{4}{7} = \mathbf{18\frac{4}{7}}$

$\frac{5}{6} \div \frac{1}{2} = \frac{5}{6} \times 2 = \frac{10}{6} = \mathbf{\frac{5}{3}} = \mathbf{1\frac{2}{3}}$

$7 \div \frac{1}{3} = 7 \times 3 = \mathbf{21}$

$5 \div \left(\frac{1}{8} \div \frac{1}{4}\right) = 5 \div \left(\frac{1}{8} \times 4\right) = 5 \div \frac{4}{8} = 5 \div \frac{1}{2} = 5 \times 2 = \mathbf{10}$

$4\frac{2}{9} \div \frac{1}{8} = 4\frac{2}{9} \times 8 = 32 + \frac{16}{9} = 32 + 1\frac{7}{9} = \mathbf{33\frac{7}{9}}$

$5\frac{3}{7} \div \frac{1}{21} = 5\frac{3}{7} \times 21 = 105 + \frac{63}{7} = 105 + 9 = \mathbf{114}$

$\left(\frac{7}{8} \div \frac{1}{3}\right) \div \frac{1}{4} = \left(\frac{7}{8} \times 3\right) \div \frac{1}{4} = \frac{21}{8} \div \frac{1}{4} = \frac{21}{8} \times 4 = 21 \times \frac{4}{8}$
$= 21 \times \frac{1}{2} = \mathbf{\frac{21}{2}} = \mathbf{10\frac{1}{2}}$

$4\frac{8}{9} \div \frac{1}{9} = 4\frac{8}{9} \times 9 = 36 + \frac{72}{9} = 36 + 8 = \mathbf{44}$

$2 \div \frac{1}{7} = 2 \times 7 = \mathbf{14}$

$3\frac{1}{3} \div \frac{1}{11} = 3\frac{1}{3} \times 11 = 33 + \frac{11}{3} = 33 + 3\frac{2}{3} = \mathbf{36\frac{2}{3}}$

$\frac{1}{18} \div \frac{1}{18} = \frac{1}{18} \times 18 = \mathbf{1}$

$\left(16 \div \frac{1}{3}\right) \div \frac{1}{2} = (16 \times 3) \div \frac{1}{2} = 48 \times 2 = \mathbf{96}$

$12 \div \frac{1}{14} = 12 \times 14 = \mathbf{168}$

$\frac{7}{9} \div \left(\frac{1}{10} \div \frac{1}{2}\right) = \frac{7}{9} \div \left(\frac{1}{10} \times 2\right) = \frac{7}{9} \div \frac{2}{10} = \frac{7}{9} \div \frac{1}{5}$
$= \frac{7}{9} \times 5 = \mathbf{\frac{35}{9}} = \mathbf{3\frac{8}{9}}$

$3\frac{3}{8} \div \frac{1}{12} = 3\frac{3}{8} \times 12 = 36 + \frac{36}{8} = 36 + \frac{9}{2}$
$= 36 + 4\frac{1}{2} = \mathbf{40\frac{1}{2}}$

$\boxed{3} \times 7 = 21$, so $\boxed{\mathbf{3}} \div \frac{1}{7} = 21$

$\boxed{\frac{20}{9}} \times 9 = 20$, so $\boxed{\mathbf{\frac{20}{9}}} \div \frac{1}{9} = 20$ ***or*** $\boxed{\mathbf{2\frac{2}{9}}} \div \frac{1}{9} = 20$

$\boxed{3} \times 30 = 90$, so $\boxed{\mathbf{3}} \div \frac{1}{30} = 90$

$\boxed{6} \times 5 = 30$, so $\boxed{\mathbf{6}} \div \frac{1}{5} = 30$

$\boxed{\frac{8}{11}} \times 22 = 16$, so $\boxed{\mathbf{\frac{8}{11}}} \div \frac{1}{22} = 16$

$\boxed{17} \times 13 = 221$, so $\boxed{\mathbf{17}} \div \frac{1}{13} = 221$

$\boxed{\frac{10}{7}} \times 42 = 60$, so $\boxed{\mathbf{\frac{10}{7}}} \div \frac{1}{42} = 60$ ***or*** $\boxed{\mathbf{1\frac{3}{7}}} \div \frac{1}{42} = 72$

$\boxed{\frac{9}{2}} \times 16 = 72$, so $\boxed{\mathbf{\frac{9}{2}}} \div \frac{1}{16} = 72$ ***or*** $\boxed{\mathbf{4\frac{1}{2}}} \div \frac{1}{16} = 72$