

$$1. \frac{\frac{15}{32}}{\frac{x}{6}} = \frac{15}{32} \div \frac{x}{6} = \frac{15}{32} \cdot \frac{6}{x} = \frac{15 \cdot 6}{32 \cdot x} = \frac{15 \cdot 3}{16 \cdot x} = \frac{45}{16x}$$

$$2. \frac{\frac{9x}{14}}{\frac{2x}{17}} = \frac{9x}{14} \div \frac{2x}{17} = \frac{9x}{14} \cdot \frac{17}{2x} = \frac{9x \cdot 17}{14 \cdot 2x} = \frac{9 \cdot 17}{14 \cdot 2} = \frac{153}{28}$$

$$3. \frac{\frac{4}{3}}{\frac{21x}{8}} = \frac{4}{3} \div \frac{21x}{8} = \frac{4}{3} \cdot \frac{8}{21x} = \frac{32}{63x}$$

$$4. \frac{\frac{3}{8y}}{\frac{1}{y}} = \frac{3}{8y} \div \frac{1}{y} = \frac{3}{8y} \cdot \frac{y}{1} = \frac{3 \cdot y}{8y \cdot 1} = \frac{3}{8}$$

$$5. \frac{\frac{2}{x}}{\frac{7}{11y}} = \frac{2}{x} \div \frac{7}{11y} = \frac{2}{x} \cdot \frac{11y}{7} = \frac{22y}{7x}$$

$$6. \frac{\frac{12x}{7}}{\frac{23}{6y}} = \frac{12x}{7} \div \frac{23}{6y} = \frac{12x}{7} \cdot \frac{6y}{23} = \frac{72xy}{161}$$

$$7. \frac{\frac{3}{2}}{\frac{9y}{1}} = \frac{3}{2} \div \frac{9y}{1} = \frac{3}{2} \cdot \frac{1}{9y} = \frac{27y}{2}$$

$$8. \frac{\frac{x}{2}}{\frac{5}{1}} = \frac{x}{2} \div \frac{5}{1} = \frac{x}{2} \cdot \frac{1}{5} = \frac{x}{10}$$