

Exercise 20

$$1. \quad (a) \quad \frac{1}{2} \div 2$$
$$= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$(b) \quad \frac{1}{4} \div 2$$
$$= \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

$$1. (c) \frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

$$(d) \frac{1}{3} \div 3 = \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$

$$(e) \frac{1}{5} \div 4 = \frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$$

$$(f) \frac{1}{6} \times 5 = \frac{1}{6} \times \frac{1}{5} = \frac{1}{30}$$

$$2. (a) \frac{2}{3} \text{ by } 2 = \frac{2}{3} \div 2 = \frac{2}{3} \times \frac{1}{2} = \frac{1}{3}$$

$$(b) \frac{3}{4} \text{ by } 3 = \frac{3}{4} \div 3 = \frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$$

$$(c) 5 \frac{1}{4} \div 42 = \frac{21}{4} \times \frac{1}{42} = \frac{1}{8}$$

$$(d) \frac{8}{5} \text{ by } 4 = \frac{8}{5} \div 4 = \frac{8}{5} \times \frac{1}{4} = \frac{2}{5}$$

$$(e) \frac{12}{17} \text{ by } 4 = \frac{12}{17} \div 4 = \frac{12}{17} \times \frac{1}{4} = \frac{3}{17}$$

$$(c) \frac{4}{7} \text{ by } 4 = \frac{4}{7} \div 4 = \frac{4}{7} \times \frac{1}{4} = \frac{1}{7}$$

$$(f) \frac{14}{25} \text{ by } 7 = \frac{14}{25} \div 7 = \frac{14}{25} \times \frac{1}{7} = \frac{2}{25}$$

$$3. (a) 2 \frac{1}{3} \div 7 = \frac{7}{3} \times \frac{1}{7} = \frac{1}{3}$$

$$(b) 3 \frac{1}{4} \div 26 = \frac{13}{4} \times \frac{1}{26} = \frac{1}{8}$$

$$(c) 5 \frac{1}{4} \div 42 = \frac{21}{4} \times \frac{1}{42} = \frac{1}{8}$$

$$(d) 7 \frac{2}{3} \div 46 = \frac{23}{3} \times \frac{1}{46} = \frac{1}{6}$$

$$(e) 11 \frac{2}{5} \div 57 = \frac{57}{5} \times \frac{1}{57} = \frac{1}{5}$$

$$(f) 12 \frac{3}{4} \div 102 = \frac{51}{4} \times \frac{1}{102} = \frac{1}{8}$$

$$4. (a) \frac{1}{3} \div 5 = \frac{1}{3} \times \frac{1}{5} \quad \boxed{T}$$

$$(c) 12 \frac{1}{2} \div 7 = \frac{25}{2} \times \frac{1}{7} \quad \boxed{F}$$

$$(b) \frac{3}{7} \div 8 = \frac{3}{7} \times \frac{1}{8} \quad \boxed{T}$$

$$(d) 8 \frac{1}{5} \div 9 = \frac{41}{5} \times \frac{1}{9} \quad \boxed{F}$$