

LESSON  
**1**

**FOCUS:** Review tenths

**MATERIALS:** Tiles

1. Solve the problems. Use tiles to show your work.

a.  $0.4 + 0.4 + 0.4 + 0.4 = \underline{\hspace{2cm}}$

m.  $0.7 + 0.7 = \underline{\hspace{2cm}}$

b.  $4 \times 0.4 = \underline{\hspace{2cm}}$

n.  $3 \times 0.6 = \underline{\hspace{2cm}}$

c.  $0.8 \div 0.2 = \underline{\hspace{2cm}}$

o.  $1.8 \div 0.6 = \underline{\hspace{2cm}}$

d.  $0.4 + 0.4 + 0.4 + 0.4 + 0.4 = \underline{\hspace{2cm}}$

p.  $\frac{4}{10} + \frac{4}{10} + \frac{4}{10} + \frac{4}{10} = \underline{\hspace{2cm}}$

e.  $5 \times 0.6 = \underline{\hspace{2cm}}$

q.  $5 \times \frac{2}{10} = \underline{\hspace{2cm}}$

f.  $1 \div 0.1 = \underline{\hspace{2cm}}$

r.  $\frac{8}{10} \div \frac{2}{10} = \underline{\hspace{2cm}}$

g.  $1.5 + 1.5 = \underline{\hspace{2cm}}$

s.  $\frac{4}{10} + \frac{5}{10} = \underline{\hspace{2cm}}$

h.  $2 \times 0.5 = \underline{\hspace{2cm}}$

t.  $4 \times \frac{5}{10} = \underline{\hspace{2cm}}$

i.  $3 \div 0.5 = \underline{\hspace{2cm}}$

u.  $6 \div \frac{5}{10} = \underline{\hspace{2cm}}$

j.  $0.3 + 0.3 + 0.3 + 0.3 + 0.3 = \underline{\hspace{2cm}}$

v.  $\frac{8}{10} + \frac{8}{10} = \underline{\hspace{2cm}}$

k.  $5 \times 0.3 = \underline{\hspace{2cm}}$

w.  $3 \times \frac{6}{10} = \underline{\hspace{2cm}}$

l.  $1.2 \div 0.3 = \underline{\hspace{2cm}}$

x.  $2\frac{1}{10} \div \frac{7}{10} = \underline{\hspace{2cm}}$

2. Several of the equations in problem 1 are related in some way. They may use equivalent common and decimal fractions, or they may be members of the same fact family. Show an example of two or more related equations, and explain the relationship.

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3. Use tiles to help write your own problem with tenths, using the operation of your choice. Then write as many related equations for the problem as you can.

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LESSON  
**2**

**FOCUS:** Review common and decimal fractions, including operations

**MATERIALS:** Coloured textas, ruler

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1. Solve the problems.

a.  $\frac{5}{5} + \frac{7}{7} = \underline{\hspace{2cm}}$

b.  $\frac{6}{6} + \frac{8}{8} = \underline{\hspace{2cm}}$

c.  $2 \times (\frac{4}{4} + \frac{8}{8}) = \underline{\hspace{2cm}}$

d.  $8 + (\frac{1}{2} + \frac{2}{4}) = \underline{\hspace{2cm}}$

e.  $5 \times (\frac{8}{16} + \frac{4}{8}) = \underline{\hspace{2cm}}$

f.  $\frac{1}{2} \times (4 \times \frac{5}{10}) = \underline{\hspace{2cm}}$

g.  $1 \div \frac{1}{4} = \underline{\hspace{2cm}}$

h.  $\frac{4}{4} \div \frac{1}{4} = \underline{\hspace{2cm}}$

i.  $(6 \times \frac{4}{4}) \div \frac{1}{2} = \underline{\hspace{2cm}}$

j.  $\frac{10}{10} \div 0.25 = \underline{\hspace{2cm}}$

k.  $2 \div \frac{1}{4} = \underline{\hspace{2cm}}$

l.  $4 \div \frac{1}{4} = \underline{\hspace{2cm}}$

m.  $6 \div 0.1 = \underline{\hspace{2cm}}$

n.  $4 \div 0.2 = \underline{\hspace{2cm}}$

o.  $2 \div 0.4 = \underline{\hspace{2cm}}$

p.  $\frac{1}{2} + \frac{50}{100} = \underline{\hspace{2cm}}$

q.  $\frac{2}{5} + 0.4 = \underline{\hspace{2cm}}$

r.  $\frac{1}{4} + \frac{5}{20} = \underline{\hspace{2cm}}$

2. Select one addition, multiplication, and division example from problem 1. Explain or draw a picture to show how to find the answer without using the rules for operations with fractions.

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3. Write any rules that you know for each of these operations on common and decimal fractions. You may use pictures or diagrams to help explain the rules.

a. Addition

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b. Multiplication

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c. Division

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LESSON  
**3**

**FOCUS:** Review operations with fractions and mixed numbers

**MATERIALS:** None

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1. Solve the problems.

a.  $3 \div \frac{1}{2} = \underline{\hspace{2cm}}$

e.  $5 \div \frac{2}{4} = \underline{\hspace{2cm}}$

i.  $3 \div \frac{2}{8} = \underline{\hspace{2cm}}$

b.  $5 \div \frac{1}{2} = \underline{\hspace{2cm}}$

f.  $8 \div \frac{2}{4} = \underline{\hspace{2cm}}$

j.  $3 \div \frac{1}{8} = \underline{\hspace{2cm}}$

c.  $8 \div \frac{1}{2} = \underline{\hspace{2cm}}$

g.  $5 \div \frac{3}{6} = \underline{\hspace{2cm}}$

k.  $1\frac{1}{8} \div \frac{1}{8} = \underline{\hspace{2cm}}$

d.  $3 \div \frac{2}{4} = \underline{\hspace{2cm}}$

h.  $3 \div \frac{1}{4} = \underline{\hspace{2cm}}$

l.  $1\frac{1}{8} \div \frac{2}{16} = \underline{\hspace{2cm}}$

2. Use mental maths to solve the problems.

a.  $7\frac{1}{2} \div \frac{1}{2} = \underline{\hspace{2cm}}$

f.  $3 \div 1\frac{1}{2} = \underline{\hspace{2cm}}$

k.  $7 \times 1\frac{1}{2} = \underline{\hspace{2cm}}$

b.  $7\frac{1}{2} \div \frac{4}{8} = \underline{\hspace{2cm}}$

g.  $1\frac{2}{4} + 3\frac{1}{2} = \underline{\hspace{2cm}}$

l.  $4\frac{1}{2} \div 1\frac{1}{2} = \underline{\hspace{2cm}}$

c.  $5\frac{1}{2} \div \frac{5}{10} = \underline{\hspace{2cm}}$

h.  $4 \times 2\frac{2}{4} = \underline{\hspace{2cm}}$

m.  $9 - \frac{1}{2} = \underline{\hspace{2cm}}$

d.  $3\frac{1}{2} + 1\frac{1}{2} = \underline{\hspace{2cm}}$

i.  $10 \div 2\frac{2}{4} = \underline{\hspace{2cm}}$

n.  $9 + \frac{1}{2} = \underline{\hspace{2cm}}$

e.  $4 \times 1\frac{1}{2} = \underline{\hspace{2cm}}$

j.  $2 \times (2\frac{1}{2} + 2\frac{2}{4}) = \underline{\hspace{2cm}}$

o.  $9\frac{1}{2} + 9\frac{1}{2} = \underline{\hspace{2cm}}$

3. Pick an equation from problem 2, and explain the process you used to find the answer mentally.

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4. Find the missing number in each equation.

a.  $(4\frac{1}{2} + 4\frac{3}{6} + 4\frac{5}{10} + 4\frac{4}{8}) \div m = 2$        $m = \underline{\hspace{2cm}}$

b.  $(4 \times 4\frac{6}{12}) \div z = 2$        $z = \underline{\hspace{2cm}}$

c.  $(5 \times \frac{1}{2}) + (5 \times \frac{3}{6}) \div y = 10$        $y = \underline{\hspace{2cm}}$

LESSON  
**4**

**FOCUS:** Review tenths, decimals, and operational concepts

**MATERIALS:** None

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1. Solve the problems. Then write a related multiplication and division equation for each problem.

a.  $2.2 + 2.2 + 2.2 =$  \_\_\_\_\_

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b.  $1.3 + 1.3 =$  \_\_\_\_\_

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c.  $0.4 + 0.4 + 0.4 + 0.4 + 0.4 + 0.4 =$  \_\_\_\_\_

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d.  $3.2 + 3.2 + 3.2 + 3.2 =$  \_\_\_\_\_

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e.  $0.6 + 0.6 + 0.6 =$  \_\_\_\_\_

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2. Solve the problems. Explain how the problems are related.

a.  $(3 \times 1.1) + (3 \times 1.1) + (3 \times 1.1) + (3 \times 1.1) =$  \_\_\_\_\_

b.  $(12 \times 1.1) =$  \_\_\_\_\_

c.  $(6 \times 1.1) + (6 \times 1.1) =$  \_\_\_\_\_

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3. Write another equation related to the equations in  $2a-c$ .

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