

MULTIPLICATIVE THINKING – SET 4

A Knows 1,2,5 and 10s times tables
(learning 3 and 4 times tables + more)

$$2 \times 6 = 12$$

$$8 \times 5 = 40$$

$$1 \times 9 = 9$$

$$3 \times 10 = 30$$

B Can reverse known times tables.

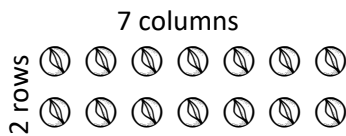
$$4 \times 10 = 40$$

$$10 \times 4 = 40$$

$$5 \times 9 = 35$$

$$9 \times 5 = 35$$

C Use known multiplication facts to solve problems



2 rows x 7 columns

$$2 \times 7 = 14$$

5 groups of 8

$$5 \times 8 = 40$$

D Solve division problems using known multiplication.

$$15 \div 5 =$$

$$5 \times 3 = 15$$

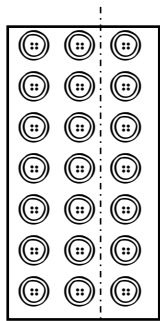
$$15 \div 3 = 5$$

$$8 \div 2 =$$

$$2 \times 4 = 8$$

$$8 \div 2 = 4$$

E Use known multiplication facts to derive unknown ones



9 x 2 9 x 1

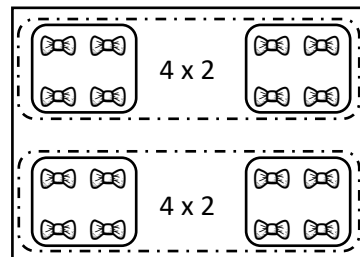
$$7 \times 3 =$$

$$7 \times 2 = 14$$

$$7 \times 1 = 7$$

$$14 + 7 = 21$$

F Solve division problems using trial and error with different size groups.



$$16 \div 4 = ?$$

$$4 \times 2 = 8$$

$$4 \times 2 = 8$$

$$8 + 8 = 16$$

$$4 \times 4 = 16$$

$$16 \div 4 = 4$$

G Can read and draw and interpret simple mixed fractions and improper fractions.

$$1 \frac{1}{4} = \text{Diagram of 1 whole and 1/4 shaded} = \frac{5}{4}$$

$$3 \frac{1}{3} = \text{Diagram of 3 wholes and 1/3 shaded} = \frac{10}{3}$$

I Can x mixed numbers using x facts to derive unknown ones

$$\begin{aligned} & \text{Diagram of 4 wholes and 1/2 shaded} \quad 4 \frac{1}{2} \times 2 \\ & \text{Diagram of 4 wholes} \quad 4 \times 2 = 8 \\ & \ominus \quad \frac{1}{2} \times 2 = 1 \\ & \quad 8 + 1 = 9 \\ & \quad 4 \frac{1}{2} \times 2 = 9 \end{aligned}$$

J Can ÷ mixed numbers using x facts to derive unknown ones

$$\begin{aligned} & \text{Diagram of 2 wholes and 1/3 shaded} \quad 7 \div 3 = \\ & \text{Diagram of 2 wholes} \quad 2 \times 3 = 6 \\ & \quad 7 - 6 = 1 \\ & \odot \quad 1 \text{ split in } 3 = 1/3 \\ & \quad 2 + 1/3 = 2 \frac{1}{3} \\ & \quad 7 \div 3 = 2 \frac{1}{3} \end{aligned}$$