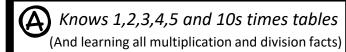
MULTIPLICATIVE THINKING — SET 5



Uses place value to solve multiplication problems

$$5 \times 4 = 20$$

 $6 \times 3 = 18$

$$17 \times 10 = 170$$

$$6 \times 10 = 60$$

 $9 \times 3 = 27$

$$5 \times 40 = 200$$

$$5 \times 8 = 40$$

 $60 \times 3 = 180$



Uses place value knowledge to solve multiplication problems – single step

$$\Theta$$

Uses multiplication /place value knowledge to solve unknown problems – single step

$$3 \times 51 =$$

Find a known basic fact $3 \times 5 = 15$

Multiply by 10s $3 \times 50 = 150$

Add 1 lot of 3 150 + 3 = 153

 $3 \times 51 = 153$

50 x ? = 150

Find a known basic fact $5 \times 3 = 15$

Multiply by 10s $50 \times 3 = 150$

Find a known basic fact $2 \times 4 = 8$

Multiply by 10s $20 \times 4 = 80$

Subtract one lot of 10 80 - 4 = 76

 $19 \times 4 = 76$

? X 6 = 240

Find how many 10s $10 \times 24 = 240$

Find the multiplication fact ? x 6 = 24

 $4 \times 6 = 24$

 $40 \times 6 = 240$



Uses multiplication/ place value knowledge to solve division problems

 $60 \div 3 =$

Inverse into a mult fact $3 \times ? = 60$

Find a known basic fact $3 \times 2 = 6$

Multiply by 10s $3 \times 20 = 60$

 $60 \div 3 = 20$

 $150 \div 50 =$

Divide 10s $15 \div 5 =$

Inverse into a mult fact $? \times 5 = 15$

Find a known basic fact $3 \times 5 = 15$

Multiply by $10s \ 3 \ x \ 50 = 150$

 $150 \div 50 = 3$

Uses multiplication knowledge to simplify fractions.

40 out of 120

Write as a fraction 40 / 120

Find common multiple $4 \times 10 = 40$

12 x 10 = 120

Simplify 4/12

Find common multiple $1 \times 4 = 4$

 $3 \times 4 = 12$

Simplify 1/3

Note: These examples all use multiplication facts to solve, just like the illustrations. However some problems could be solved using division facts which is another way of showing multiplicative thinking.