

Fir Tree

Calculation Strategies

Year 5 and 6

Addition Vocabulary



Addition

A7: Column Addition

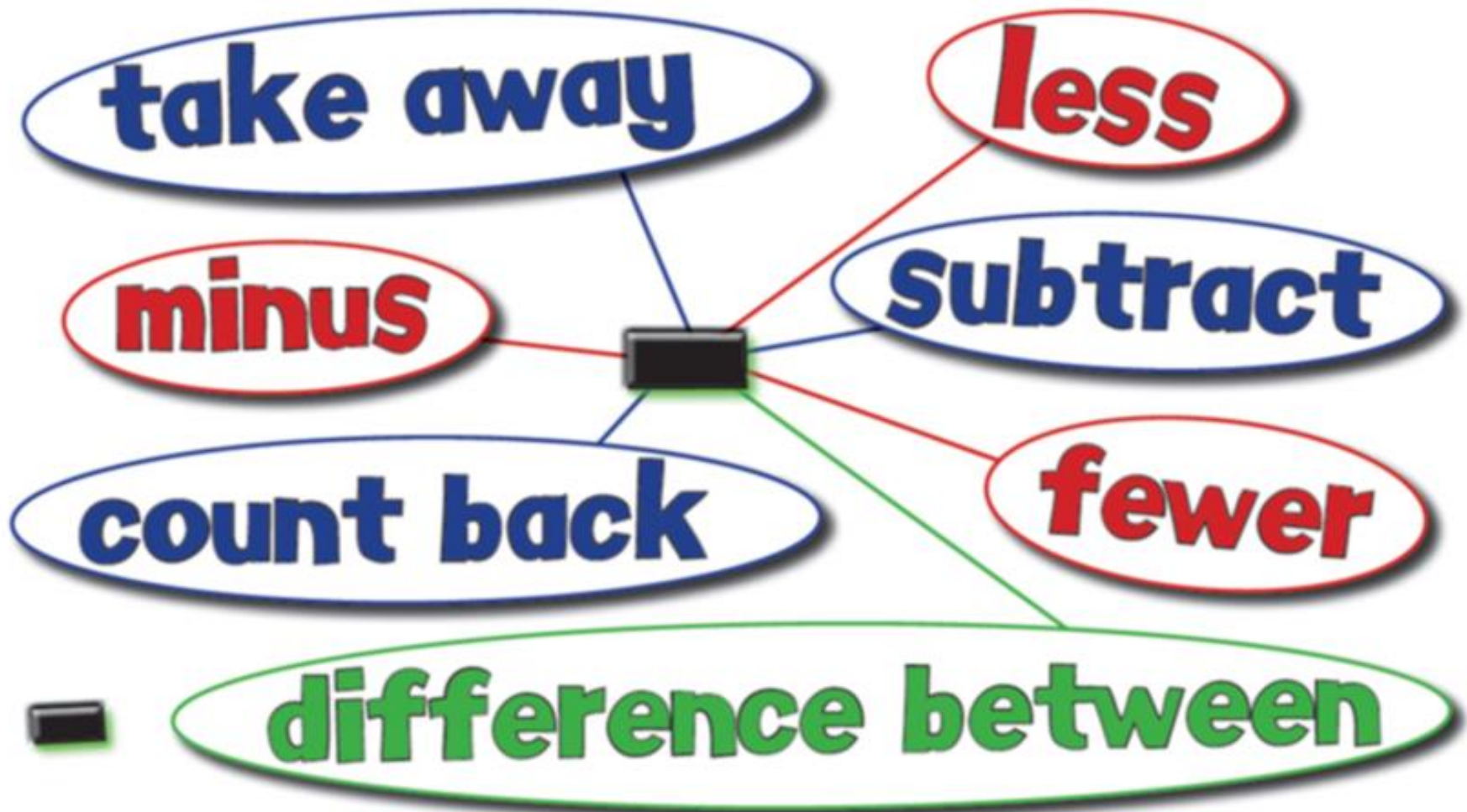
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 78 \\ + 46 \\ \hline 124 \\ \hline \text{1} \quad \text{1} \end{array}$$

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 248 \\ + 687 \\ \hline 935 \\ \hline \text{1} \quad \text{1} \end{array}$$

A8: Column Addition

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \quad . \quad \text{t} \\ 183.4 \\ + 62.9 \\ \hline 246.3 \\ \hline \text{1} \quad \quad \text{1} \end{array}$$

Subtraction Vocabulary



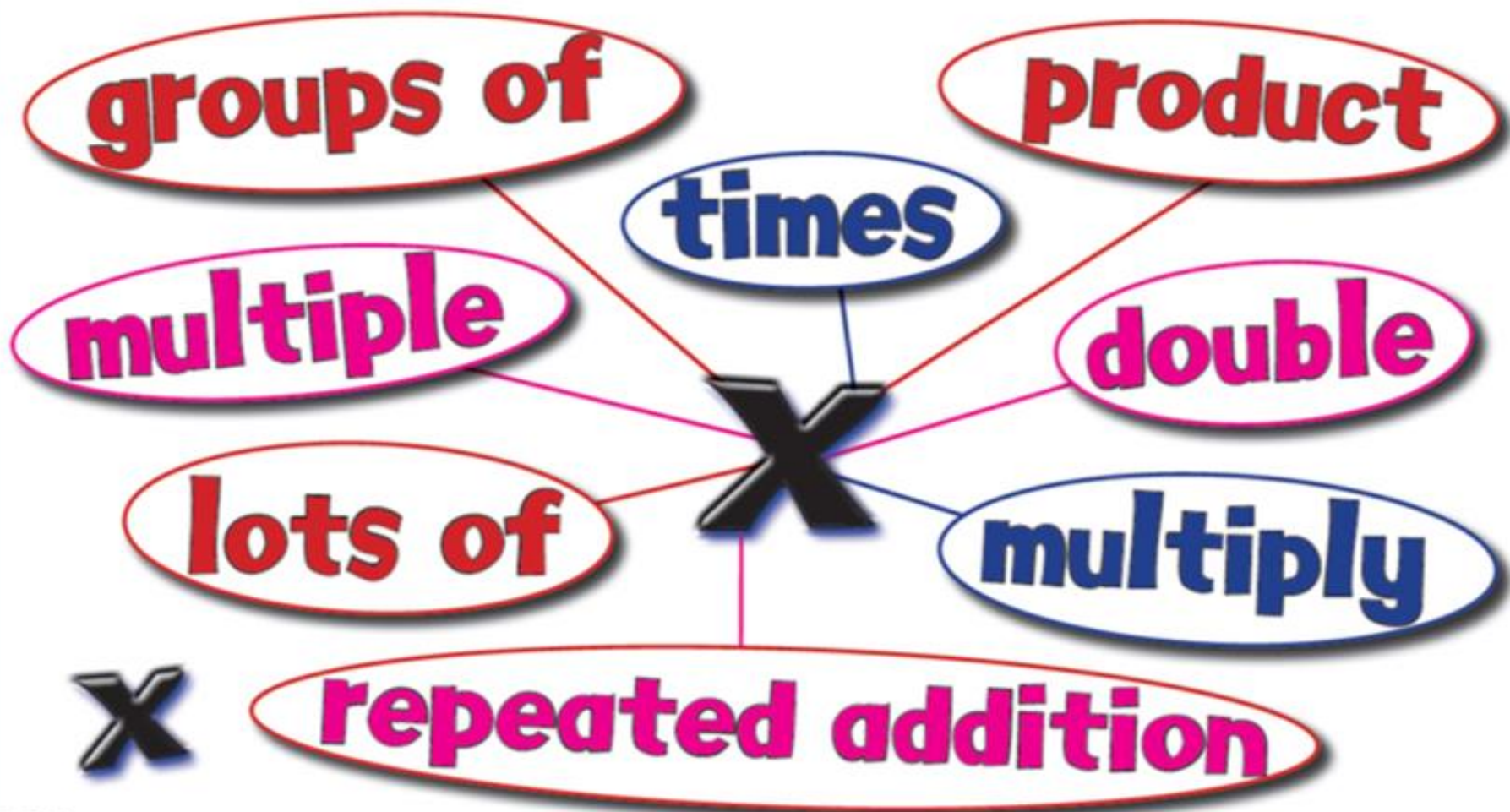
Subtraction

S9: Column Subtraction

$$\begin{array}{r} \text{T} \quad \text{U} \quad \text{t} \\ 0 \quad 12 \quad 1 \\ \cancel{1} \cancel{3} . 4 \\ - 8 . 7 \\ \hline 4 . 7 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{U} \quad \text{t} \\ 1 \quad 1 \\ 6 \cancel{2} . 5 \\ - 1 . 9 \\ \hline 60 . 6 \end{array}$$

Multiplication Vocabulary



Multiplication

M7: Decimal Grid

$$3.6 \times 4 = 14.4$$

x	3	0.6
4	12	2.4

$$\begin{array}{r} 12 \\ + 2.4 \\ \hline 14.4 \end{array}$$

M8*: Column Multiplication

Expanded

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 43 \\ \times 6 \\ \hline 18 \\ 240 \\ \hline 258 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{U} \\ 165 \\ \times 7 \\ \hline 35 \\ 420 \\ 700 \\ \hline 1155 \end{array}$$

M9: Compact Vertical

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 43 \\ \times 6 \\ \hline 258 \\ \hline 1 \end{array}$$

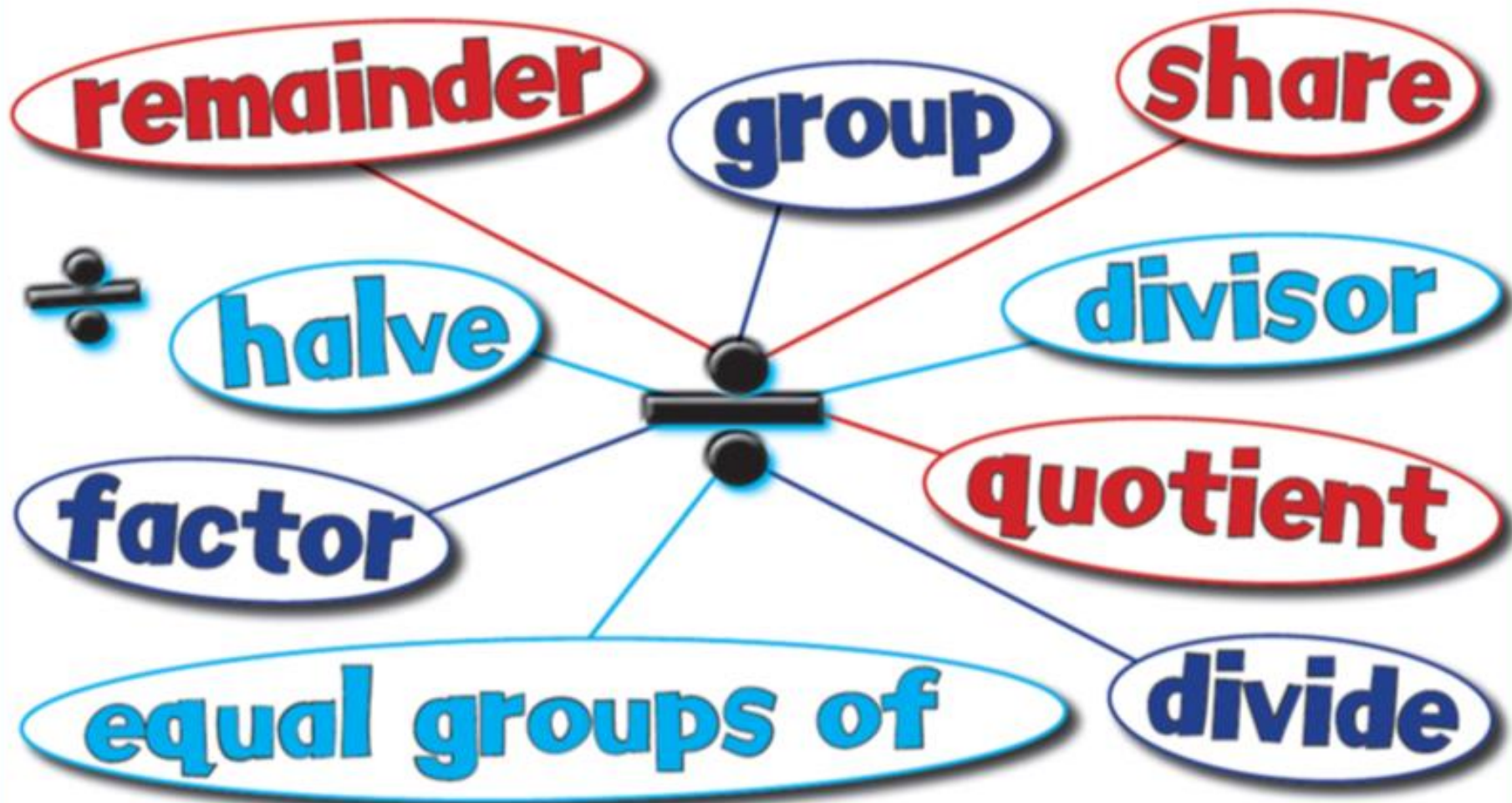
$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 65 \\ \times 7 \\ \hline 455 \\ \hline 3 \end{array}$$

M11: Long Multiplication

Compact Vertical

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{U} \\ 43 \\ \times 56 \\ \hline 258 \quad (6 \times 43) \\ + 2150 \quad (50 \times 43) \\ \hline 2408 \end{array}$$

Division Vocabulary



Division

D4: Short Division

$$136 \div 4 = 34$$

$$\begin{array}{r} 34 \\ 4 \overline{) 136} \end{array}$$

D4*: Short Division

$$394 \div 6 = 65r4$$

$$\begin{array}{r} 65r4 \\ 6 \overline{) 394} \end{array}$$

D4**: Short Division

Different Remainders

$$\begin{array}{r} 169.2 \\ 5 \overline{) 846.0} \end{array}$$

$$846 \div 5$$

$$\begin{array}{r} 169r1 \\ 5 \overline{) 846} \end{array}$$

$$\begin{array}{r} 169\frac{1}{5} \\ 5 \overline{) 846} \end{array}$$

Long Division

D6: LONG DIVISION

$$\begin{array}{r} 021 \text{ r } 10 \\ 15 \overline{) 325} \\ \underline{300} \quad - \text{ (x 20)} \\ 025 \\ \underline{15} \quad - \text{ (x 1)} \\ 10 \end{array}$$

$15 \times 1 = 15$
 $15 \times 2 = 30$
 $15 \times 3 = 45$
 $15 \times 4 = 60$
 $15 \times 5 = 75$
 $15 \times 10 = 150$
 $15 \times 20 = 300$

D5: Long Division

$$\begin{array}{r} 26 \text{ r } 21 \\ 37 \overline{) 983} \\ \underline{- 74} \\ 243 \\ \underline{- 222} \\ 21 \end{array}$$

$983 \div 37 = 26 \text{ r } 21$

A multiplication grid for your child to complete to support their Calculation progression

[illegible]