

# Ways to Multiply & Divide

## Division

Checking

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

Ex 1:

$$\begin{array}{r} 7 \overline{) 100} \quad (14 \\ \underline{-7} \\ 30 \\ \underline{-28} \\ 2 \end{array}$$

Divisor = 7, Quotient = 14

Remainder = 2

Dividend = 100

Divisor  $\times$  Quotient + Remainder

$$= 7 \times 14 + 2$$

$$= 98 + 2$$

$$= 100$$

Ex 2: -  $438 \div 9$

Divisor = ~~9~~ 9

Quotient = 48

Remainder = 6

$$\begin{array}{r} 9 \overline{) 438} \quad (48 \\ \underline{-36} \\ 78 \\ \underline{-72} \\ 6 \end{array}$$

Divisor  $\times$  Quotient + Remainder

$$9 \times 48 + 6 = 432 + 6 = 438$$

$$3) \quad 2475 \div 11$$

$$\text{Divisor} = 11$$

$$\text{Quotient} = 225$$

$$\text{Remainder} = 0$$

$$\begin{array}{r} 11 \overline{) 2475} \quad (225) \\ \underline{-22} \phantom{0} \\ 27 \\ \underline{-22} \phantom{0} \\ 55 \\ \underline{-55} \\ 0 \end{array}$$

$$\begin{aligned} \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 11 \times 225 + 0 \\ &= 2475 + 0 \\ &= 2475 \end{aligned}$$

### Homework

Divide & Check your result

$$1) \quad 900 \div 10$$

$$2) \quad 3480 \div 12$$

$$3) \quad 678 \div 6$$

$$4) \quad 450 \div 7$$

$$5) \quad 1212 \div 11$$

$$6) \quad 1856 \div 8$$