

## Division Reasoning Name:

$16 \times 20$  is the same as  $16 \times 2 \times 10$

So .....  $160 \div 20$  is the same as  $160 \div 10 \div 2$

$$160 \div 10 = 16$$

$$16 \div 2 = 8$$

So  $160 \div 20 = 8$

We can create equivalent expression by  
x or ÷ both parts of the expression by the same amount

$$\begin{array}{ccc} \begin{array}{cc} \div 10 & \div 10 \\ 160 & \div 20 = 8 \end{array} & \begin{array}{cc} \div 2 & \div 2 \\ 160 \div 20 & = 8 \end{array} \\ 16 \div 2 = 8 & & 80 \div 10 = 8 \end{array}$$

### NOTE

Normally when dividing a multiple of 10 by a multiple of 10, we divide each part of the expression by 10 to remove the zeros.

i.e.  $450 \div 50$        $4000 \div 20$        $240 \div 20$        $1800 \div 90$        $100 \div 10$   
is the same as     $45 \div 5$        $400 \div 2$        $24 \div 2$        $180 \div 9$        $10 \div 1$

Normally when dividing a multiple of 100 by a multiple of 100, we divide each part of the expression by 100 to remove the zeros.

i.e.  $4500 \div 500$        $40000 \div 2000$        $24000 \div 2000$        $1000 \div 100$   
is the same as     $45 \div 5$        $40 \div 2$        $240 \div 2$        $10 \div 1$

$240 \div 20$  is the same as       $56 \div 7 =$        $3220 \div 4 =$

$\underline{\quad} \div \underline{\quad} =$        $560 \div 7 =$        $3200 \div 4 + 20 \div 4$

$450 \div 50$  is the same as       $45 \div 5 =$        $\underline{\quad} + \underline{\quad}$

$\underline{\quad} \div \underline{\quad} =$        $450 \div 5 =$        $5614 \div 7 =$

$2200 \div 20$  is the same as       $27 \div 3 =$        $5600 \div 7 + 14 \div 7$

$\underline{\quad} \div \underline{\quad} =$        $2700 \div 3 =$        $\underline{\quad} + \underline{\quad}$

$1200 \div 60$  is the same as       $32 \div 4 =$        $7227 \div 9 =$

$\underline{\quad} \div \underline{\quad} =$        $3200 \div 4 =$        $\underline{\quad} \div \underline{\quad} + \underline{\quad} \div \underline{\quad}$

$2000 \div 50$  is the same as       $16 \div 4 =$        $\underline{\quad} + \underline{\quad}$

$\underline{\quad} \div \underline{\quad} =$        $160 \div 4 =$