

Division Reasoning Name:

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

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

$$160 \div 10 = 16$$

$$16 \div 2 = 8$$

$$\text{So } 160 \div 20 = 8$$

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

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

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. $450 \div 50$ $400 \div 20$ $24 \div 2$ $180 \div 90$ $10 \div 1$
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. $4500 \div 500$ $4000 \div 200$ $2400 \div 200$ $1000 \div 100$
is the same as $45 \div 5$ $40 \div 2$ $240 \div 2$ 10

$240 \div 20$ is the same as	$1200 \div 200$ is the same as	$320 \div 40 =$
$\underline{\quad} \div \underline{\quad} =$	$\underline{\quad} \div \underline{\quad} =$	$320 \div 10 \div \underline{\quad} =$
$450 \div 50$ is the same as	$1500 \div 500$ is the same as	$32 \div \underline{\quad} =$
$\underline{\quad} \div \underline{\quad} =$	$\underline{\quad} \div \underline{\quad} =$	$350 \div 50 =$
$2200 \div 20$ is the same as	$2400 \div 200$ is the same as	$350 \div \underline{\quad} \div \underline{\quad} =$
$\underline{\quad} \div \underline{\quad} =$	$\underline{\quad} \div \underline{\quad} =$	$35 \div \underline{\quad} =$
$120 \div 60$ is the same as	$1600 \div 800$ is the same as	$160 \div 40 =$
$\underline{\quad} \div \underline{\quad} =$	$\underline{\quad} \div \underline{\quad} =$	$160 \div \underline{\quad} \div \underline{\quad} =$
$2000 \div 50$ is the same as	$240 \div 20$ is the same as	$16 \div \underline{\quad} =$
$\underline{\quad} \div \underline{\quad} =$	$\underline{\quad} \div \underline{\quad} =$	