

Division Reasoning Name:

16 x 20 is the same as 16 x 2 x 10

So 160 ÷ 20 is the same as 160 ÷ 10 ÷ 2

$$160 \div 10 = 16$$

$$16 \div 2 = 8$$

So 160 ÷ 20 = 8

We can create equivalent expression by

x or ÷ both parts of the expression by the same amount

$$\begin{array}{c} \div 10 \quad \div 10 \\ 16\cancel{0} \div 2\cancel{0} = 8 \end{array} \quad \begin{array}{c} \div 2 \quad \div 2 \\ 160 \div 20 = 8 \end{array}$$

$$16 \div 2 = 8 \quad 80 \div 10 = 8$$

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. $45\cancel{0} \div 5\cancel{0}$ $400\cancel{0} \div 2\cancel{0}$ $24\cancel{0} \div 2\cancel{0}$ $180\cancel{0} \div 9\cancel{0}$ $10\cancel{0} \div 1\cancel{0}$
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. $45\cancel{00} \div 5\cancel{00}$ $40\cancel{00} \div 2\cancel{00}$ $24\ 0\cancel{00} \div 2\cancel{00}$ $10\cancel{00} \div 1\cancel{00}$
is the same as $45 \div 5$ $40 \div 2$ $240 \div 2$ 10

240 ÷ 20 is the same as

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

450 ÷ 50 is the same as

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

2200 ÷ 20 is the same as

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

1200 ÷ 60 is the same as

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

2000 ÷ 50 is the same as

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

$$56 \div 7 =$$

$$560 \div 7 =$$

$$45 \div 5 =$$

$$450 \div 5 =$$

$$27 \div 3 =$$

$$2700 \div 3 =$$

$$32 \div 4 =$$

$$3200 \div 4 =$$

$$16 \div 4 =$$

$$160 \div 4 =$$

$$3220 \div 4 =$$

$$3200 \div 4 + 20 \div 4$$

$$\underline{\quad} + \underline{\quad}$$

$$5614 \div 7 =$$

$$5600 \div 7 + 14 \div 7$$

$$\underline{\quad} + \underline{\quad}$$

$$7227 \div 9 =$$

$$\underline{\quad} \div \underline{\quad} + \underline{\quad} \div \underline{\quad}$$

$$\underline{\quad} + \underline{\quad}$$