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 ÷ 10 = 16

16 ÷ 2 = 8

So.. 160 ÷ 20 = 8

We can create equivalent expression by

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

$$\overset{\div 10}{16\cancel{0}} \div \overset{\div 10}{2\cancel{0}} = 8 \qquad \overset{\div 2}{160} \div \overset{\div 2}{20} = 8$$

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

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.	$45\cancel{0} \div 5\cancel{0}$	$400\cancel{0} \div 20$	$240 \div 20$	$1800 \div 90$	$100 \div 10$
is the same as	45 ÷ 5	400 ÷ 2	24 ÷ 2	180 ÷ 9	10 ÷ 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.	$45\cancel{00} \div 5\cancel{00}$	$40\cancel{00} \div 200$	$24\,0\cancel{00} \div 200$	$1000 \div 100$
is the same as	45 ÷ 5	40 ÷ 2	240 ÷ 2	10

a/ 280 ÷ 20 =

28 ÷ 2 =

a/ 300 ÷ 30 =

30 ÷ _____ =

a/ 360 ÷ 60 =

_____ ÷ _____ =

a/ 400 ÷ 50 =

_____ ÷ _____ =

a/ 2800 ÷ 40 =

_____ ÷ _____ =

a/ 2800 ÷ 200 =

28 ÷ 2 =

a/ 2400 ÷ 600 =

24 ÷ _____ =

a/ 2800 ÷ 700 =

_____ ÷ _____ =

a/ 5600 ÷ 800 =

_____ ÷ _____ =

a/ 2100 ÷ 700 =

_____ ÷ _____ =

3220 ÷ 4 =

3200 ÷ 4 + 20 ÷ 4 =

_____ + _____

5614 ÷7 =

_____ ÷ 7 + _____ ÷ 7 =

_____ + _____

7227 ÷ 9 =

_____ ÷ __ + _____ ÷ __

_____ + _____