

We use multiplication to solve division.

$12 \div 4$ asks us to work out how many groups of 4 are there in 12

To solve $12 \div 4$ we need to ask the question $4 \times \underline{\quad} = 12$

$4 \times 3 = 12$ so $12 \div 4 = 3$ and $12 \div 3 = 4$

If $4 \times 3 = 12$ then $40 \times 3 = 120$ and $4 \times 30 = 120$

Then

$12 \div 3 = 4$ and $120 \div 3 = 40$ and $120 \div 30 = 4$

$12 \div 4 = 3$ and $120 \div 4 = 30$ and $120 \div 40 = 3$

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

$$150 \div 2 =$$

$$100/2 + 40/2 + 10/2$$

$$250 \div 2 =$$

$$\underline{\quad}/2 + \underline{\quad}/2 + \underline{\quad}/2$$

_____ + _____ + _____

$$130 \div 2 =$$

$$\underline{\quad}/2 + 20/2 + \underline{\quad}/2$$

_____ + _____ + _____

$$170 \div 2 =$$

$$160/2 + 10/2 =$$

_____ + _____

$$190 \div 2 =$$

$$\underline{\quad}/2 + \underline{\quad}/2$$

_____ + _____

$$9 \times 6 = 54$$

$$54 \div 6 =$$

$$54 \div 9 =$$

$$4 \times 8 = 32$$

$$32 \div 8 =$$

$$32 \div 4 =$$

$$21 \div 7 =$$

$$18 \div 3 =$$

$$36 \div 6 =$$

$$42 \div 7 =$$

$$9 \times 60 = 540$$

$$540 \div 6 =$$

$$540 \div 9 =$$

$$40 \times 8 = 320$$

$$320 \div 8 =$$

$$30 \times 7 = 210$$

$$210 \div 7 =$$

$$4 \times 90 = 360$$

$$360 \div 4 =$$

DISTRIBUTIVE LAW of MULTIPLICATION

$$12 \times 35$$

$$12 \text{ groups of } 35 = (10 \text{ groups of } 35) + (2 \text{ groups of } 35)$$

$$12 \times 35 =$$

$$(10 + 2) \times 35 = 10 \times 35 + 2 \times 35$$

$$= 350 + 70$$

$$= 420$$

/ is another symbol for division

$$400 \div 4 = 400/4$$

We can use the distributive law for DIVISION

$$420 \div 4 =$$

$$400 + 20$$

We can split the 420 into multiples of 4

$$420 \div 4 = 105$$

$$400 \div 4 + 20 \div 4$$

$$100 + 5$$

450 L of juice is shared among 5 people.

How much does each person get?

Which calculations could be used to solve this problem.

(mark with an x)

a/ $450 \div 5 =$ _____

b/ $5 \times \underline{\quad} = 450$

c/ $450 + 5 =$ _____

d/ $450 - 5 =$ _____

350 g of ham is shared among 7 people.

How much does each person get?

Which calculations could be used to solve this problem.

(mark with an x)

a/ $350 \div 7 =$ _____

b/ $7 \times \underline{\quad} = 350$

c/ $350 + 5 =$ _____

d/ $350 - 5 =$ _____