We use multiplication to solve division.

12 ÷ 4 asks us to work out how many groups of 4 are there in 12

To solve 12 ÷ 4 we need to ask the question 4 x __ = 12

4 x 3 = 12 so 12 ÷ 4 = 3 and 12 ÷ 3 = 4
If 4 x 3 =12 then 40 x 3 = 120 and 4 x 30 = 120
Then
12 ÷ 3 = 4 and 120 ÷ 3 = 40 and 120 ÷ 4 = 30
12 ÷ 4 = 3 and 120 ÷ 4 = 30 and 120 ÷ 3 = 40

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

432 ÷ 6 = 72

420/6 + 12/6

70 + 2

252 ÷ 4 =

/4 + /4

328 ÷ 8 =

/8 + /8

171 ÷ 3 =

/3 + /3

Building Up of **Building Down** is similar to the strategy **Guess, Check and Adjust**

1236 ÷ 4 =

4 x 300 = 1200

4 x 310 = 1240

4 x 309 = 1236 so 1236 ÷ 4 =309

7 x 6 = 42

42 ÷ 6 =

42 ÷ 7 =

6 x 8 = 48

48 ÷ 6 =

48 ÷ 8 =

28 ÷ 7 =

21 ÷ 3 =

56 ÷ 7

49 ÷ 7 =

7 x 60 = 420

420 ÷ 7 =

420 ÷ 6 =

30 x 8 = 240

240 ÷ 8 =

50 x 7 = 350

350 ÷ 7 =

4 x 70 = 280

280 ÷ 4 =

DISTRIBUTIVE LAW of MULTIPLICATION

12 x 35

12 groups of 35 = (10 groups of 35) + (2 groups of 35)

12 x 35 =

(10 + 2) x 35 = 10 x 35 + 2 x 35

= 350 + 70

= 420

We can use the distributive law for DIVISION

420 ÷ 4 =

400 + 20

We can split the 420 into multiples of 4

420 ÷ 4 = 105

400÷4 + 20÷4

100 + 5

/ is another symbol for division

400 ÷ 4 = 400/4

726 ÷ 6 =

/6 + /6 + /6

1324 ÷ 4 =

/4 + /4 + /4

1760 ÷ 8 =

/8 + /8

Try Building Down

360 ÷ 5 =

70 x 5 =

71 x 5 =

72 x 5 =

812 ÷ 4 =

200 x 4 =

201 x 4 =

202 x 4 =

203 x 4 =