## Multiplication and division facts and skills

## Recap

Multiplication squares show us that division is the *inverse* of multiplication.

So, we can say:

 $8 \times 9 = 72$ 

 $9 \times 8 = 72$ 

 $72 \div 9 = 8$ 

 $72 \div 8 = 9$ 

×	1	2	3	4	5	6	7	8	9	10	11	12
1	I	2	3	4	5	6	7	8	9	10	П	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
Ш	П	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

## **B** Revise

You already know some square and cube number facts, and you can calculate others.

Five squared =  $5^2 = 5 \times 5 = 25$ 

Five cubed =  $5^3 = 5 \times 5 \times 5 = 125$ 

Remember the inverses:  $25 \div 5 = 5$ ,  $125 \div 5 = 25$ 

Also, you should now be able to multiply and divide by **powers of 10**.

Operation	Fact	Example
×10	Move one place left	65 × 10 = 650
÷10	Move one place right	65 ÷ 10 = 6.5
×1000	Move three places left	65 × 1000 = 65,000
÷1000	Move three places right	65 ÷ 1000 = 0.065
×1,000,000	Move six places left	65 × 1,000,000 = 65,000,000
÷1,000,000	Move six places right	65 ÷ 1,000,000 = 0.000065



When multiplying by larger numbers, we can separate the powers of 10, for example:  $7 \times 12,000$  is the same as  $7 \times 12 \times 1000$ =  $84 \times 1000 = 84,000$ 

Or for 24,000  $\div$  6, just do 24  $\div$  6 = 4, then times by 1000 = 4 × 1000 = 4000