



KIRF: I can instantly recall ALL times table facts and related division facts to 12x12 and use these to derive facts including decimal numbers.

This is a chance for Year 6 children to consolidate their knowledge of multiplication and division facts and to increase their speed of recall. Children who have already mastered their times tables should apply this knowledge to answer questions including decimals e.g. $0.7 \times \square = 4.2$ or $\square \div 60 = 0.7$

Questions to ask at home

What is 12 multiplied by 6?
What is 7 times 0.8?
The product is 20, what could be the question?
 $32 \div \square = 0.8$

Key vocabulary

12 **multiplied** by 6 is equal to 72
12 times 4 and 4 times 12 are **equivalent**
132 **divided** by 12 equals 11
The **product** of 6 and 3 is 18.
The **quotient** of 18 and 6 is 3.

What can this look like?

Concrete:



$$12 \times 2 = 24$$

$$12 \times \bigcirc = 72$$

$$\bigcirc \div 12 = 5$$

Pictorial:

72



Abstract:

Twelve multiplied by ____ is equal to sixty
____ divided by eight is equal to twelve

Things to try

Speed Challenge – Take two packs of playing cards and remove the kings. Shuffle the packs and turn over two cards and ask your child to multiply the numbers together (Ace=1, Jack = 11, Queen = 12). How many questions can they answer correctly in 2 minutes? Practice regularly and see if you can beat your high score.

TT Rock Stars – try to log on as much as possible - just 5 minutes practice a day makes a big difference.

Active Learn

Diamond Demolition [Diamond demolition 6.14a \(activelearnprimary.co.uk\)](https://activelearnprimary.co.uk) Get the Yeti [Get the Yeti 6.6b \(activelearnprimary.co.uk\)](https://activelearnprimary.co.uk)

Websites

BBC Maths KS2 - Guardians: Defenders of Mathematica
<https://www.bbc.co.uk/bitesize/topics/zd2f7nb/articles/zn2y7nb>

If your child feels confident with their times tables then these resources from nrich will help challenge and develop their thinking: <https://nrich.maths.org/mobile> <https://nrich.maths.org/1783>
<https://nrich.maths.org/6434> <https://nrich.maths.org/92> <https://nrich.maths.org/1785>

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

$\times$	0.2	
5		1.5
		1.2