profession

programme

program

pronunciation

queue
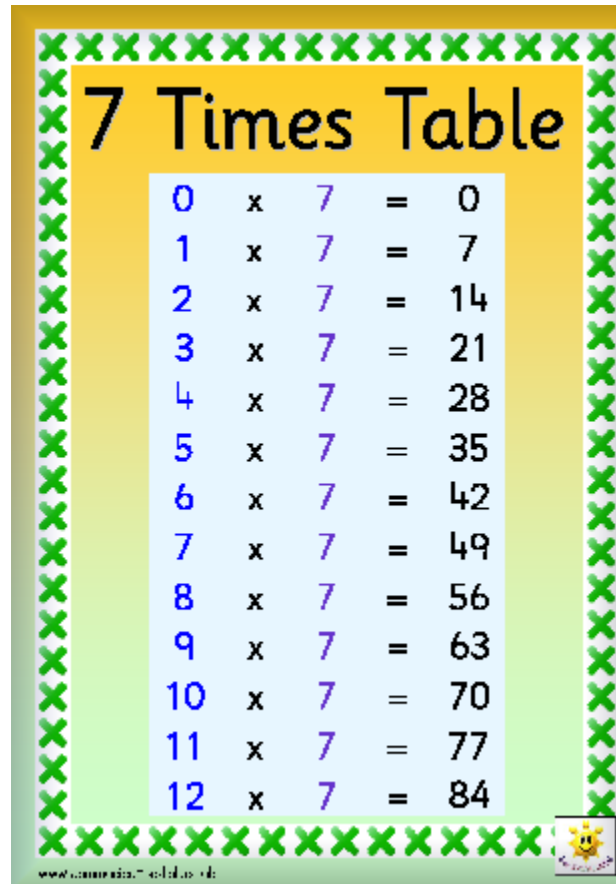
recognise

recommend

relevant

restaurant

rhyme

7 Times Table

0	x	7	=	0
1	x	7	=	7
2	x	7	=	14
3	x	7	=	21
4	x	7	=	28
5	x	7	=	35
6	x	7	=	42
7	x	7	=	49
8	x	7	=	56
9	x	7	=	63
10	x	7	=	70
11	x	7	=	77
12	x	7	=	84

FACTORS 2

TARGET To recognise and use factor pairs in mental calculations.

Examples

$18 \times 15 = 18 \times 3 \times 5$
$= 90 \times 3$
$= 270$

$144 \div 16 = 144 \div 2 \div 8$
$= 72 \div 8$
$= 9$

$480 = \square \times 6$
$48 = 8 \times 6$
$480 = 80 \times 6$
Missing number is 80.

A

Complete the factor pairs.

1 The factor pairs of 8.
1 and $\square$ 2 and $\square$

2 The factor pairs of 10.
$\square$ and 2 $\square$ and 10

3 The factor pairs of 21.
21 and $\square$ $\square$ and 3

4 The factor pairs of 22.
1 and $\square$ $\square$ and $\square$

5 The factor pairs of 12.
1 and $\square$ 2 and $\square$
3 and $\square$

6 The factor pairs of 18.
$\square$ and $\square$ $\square$ and $\square$
$\square$ and $\square$

Find pairs of factors for each target number.

7 6 (2 pairs)
8 9 (2 pairs)
9 14 (2 pairs)
10 15 (2 pairs)
11 16 (3 pairs)
12 20 (3 pairs)

B

Find all the factors of each target number. The number of factors is shown in brackets.

1 13 (2)
2 28 (6)
3 32 (6)
4 40 (8)
5 48 (10)
6 54 (8)
7 60 (12)
8 72 (12)
9 88 (8)
10 100 (9)
11 126 (12)
12 144 (15)

Break down the second number into factors to help work out each problem.

13 18×6
14 16×8
15 22×12
16 15×18
17 $84 \div 4$
18 $210 \div 14$
19 $96 \div 6$
20 $108 \div 12$

Find a pair of factors to solve each missing number problem.

21 $140 = \square \times 20$
22 $270 = 9 \times \square$
23 $150 = 50 \times \square$
24 $280 = \square \times 4$
25 $420 = \square \times 60$
26 $320 = 4 \times \square$

C

Find all the factors of:

1 66
2 96
3 114
4 150
5 128
6 121
7 143
8 135
9 156
10 131
11 196
12 180

Break the second number down into factors to help work out each problem.

13 28×16
14 24×25
15 22×18
16 31×24
17 $168 \div 12$
18 $176 \div 22$
19 $165 \div 15$
20 $147 \div 21$

Find the highest factor shared by:

21 15 and 40
22 18 and 24
23 12 and 20
24 30 and 50
25 32 and 56
26 18 and 45
27 14 and 63
28 22 and 55
29 28 and 42
30 32 and 48