



DIVISION EXERCISE BOOK

DIVISION – LIST OF STEPS

Step 1 Complete mastery of multiplication basic facts (times tables) up to and including 12x12. (As division is the inverse of multiplication, mastery of these facts is essential; it is not an optional extra.)

Step 2 Single digit \div single digit, no remainder.

Step 3 Single digit \div single digit, with remainder.

Step 4 . Double digit \div single digit, single digit answer, no remainder

Step 5 Double digit \div single digit, single digit answer, with remainder.

Step 6 Double digit ending in zero \div single digit, single digit answer, with remainder

Step 7 Double digit \div single digit, double digit answer, no "carrying", no remainder.

Step 8 Double digit \div single digit, double digit answer, no "carrying", with remainder.

Step 9 Double digit \div single digit, double digit answer ending in zero, no "carrying", with remainder.

Step 10 Double digit \div single digit, double digit answer, with "carrying", no remainder.

Step 11 Double digit ending in zero \div single digit, double digit answer, with "carrying", no remainder.

Step 12 Double digit \div single digit, double digit answer, with "carrying", with remainder.

Step 13 Double digit ending in zero \div single digit, double digit answer, with "carrying", with remainder.

Step 14 Triple digit \div single digit, triple digit answer, with and without "carrying", no remainder.

Step 15 Triple digit \div single digit, triple digit answer, with and without "carrying", with remainders.

Step 16 Triple digit \div single digit, triple digit answer with zero in the middle, with and without remainder.

Step 17 Triple digit with two zeros \div single digit, triple digit answer, with and without remainders.

Step 18 Triple digit \div single digit, double digit answer, with and without remainders.

DIVISION - EXERCISES

STEP ONE

- Photocopy the following page and give as an oral test. (Do not give this as a written test. Most students can easily pick up visual patterns of numbers, and the answers given will not be a true indication of known/unknown multiplication facts.)
- Do not ask the questions sequentially.

eg. 7×4 , 12×6 , 9×3 etc NOT 7×1 , 7×2 , 7×3 etc

(Some students will easily pick up sequential patterns that are embedded in oral material, and rather than give an answer based on what they know, will give an answer based on the sequential pattern they are recognising in what they hear.)

- Cross out the ones answered correctly, circle (or highlight) the ones answered incorrectly. This will show which multiplication basic facts are missing.
- Put in place some form of accountability mechanism that requires the student to memorise (under normal circumstances) one basic fact per day. (This is an achievable goal for most students, and should produce the desired outcome so long as the teacher is diligent to keep the student accountable.)

Please note:

1. As division is the inverse of multiplication, **complete mastery of multiplication basic facts (times tables)** up to and including 12x12 **is essential**; it is not an optional extra. Failure to learn multiplication basic facts will almost certainly mean a student will almost certainly be unable to perform division.
2. The standard of '12 x 12' stems from the days of pounds, shillings and pence, as pennies had to be divided by 12 to form shillings. As a general standard however, it remains unchallenged as a good tool for everyday life, and as almost a prerequisite for effective Maths studies at a higher level. Able students who are likely to later work with Maths in an everyday work environment (eg accountancy) are strongly advised to learn up to 15 x 15.

1x2=2		1x4=4			7x0=0		9x0=9			12x0=-0
2x2=4										
3x2=3	3x3=9									
4x2=8	4x3=12	4x4=16								
5x2=10	5x3=15	5x4=20	5x5=25							
6x2=12	6x3=18	6x4=24	6x5=30	6x6=36						
7x2=14	7x3=21	7x4=28	7x5=35	7x6=42	7x7=49					
8x2=16	8x3=24	8x4=32	8x5=40	8x6=48	8x7=56	8x8=64				
9x2=18	9x3=27	9x4=36	9x5=45	9x6=54	9x7=63	9x8=72	9x9=81			
10x2=20	10x3=30	10x4=40	10x5=50	10x6=60	10x7=70	10x8=80	10x9=90	10x10=100		
11x2=22	11x3=33	11x4=44	11x5=55	11x6=66	11x7=77	11x8=88	11x9=99	11x10=110	11x11=121	
12x2=24	12x3=36	12x4=48	12x5=60	12x6=72	12x7=84	12x8=96	12x9=108	12x10=120	12x11=132	12x12=144

STEP TWO

a) $9 \div 3$

b) $6 \div 3$

c) $4 \div 2$

d) $8 \div 4$

e) $3 \div 1$

f) $8 \div 2$

g) $5 \div 1$

h) $6 \div 2$

STEP THREE

a) $9 \div 4$

b) $6 \div 5$

c) $4 \div 3$

d) $8 \div 5$

e) $3 \div 2$

f) $8 \div 3$

g) $5 \div 3$

h) $6 \div 4$

i) $7 \div 3$

j) $8 \div 3$

k) $9 \div 7$

l) $7 \div 5$

STEP FOUR

a) $12 \div 4$

b) $15 \div 5$

c) $18 \div 3$

d) $24 \div 6$

e) $16 \div 2$

f) $18 \div 6$

g) $15 \div 3$

h) $16 \div 4$

i) $21 \div 3$

j) $21 \div 7$

k) $27 \div 9$

l) $24 \div 8$

STEP FIVE

a) $38 \div 7$

b) $16 \div 5$

c) $12 \div 7$

d) $18 \div 8$

e) $15 \div 6$

f) $18 \div 4$

g) $16 \div 7$

h) $12 \div 9$

i) $12 \div 5$

j) $15 \div 2$

k) $14 \div 6$

l) $16 \div 9$

STEP SIX

a) $30 \div 7$

b) $20 \div 6$

c) $33 \div 4$

d) $10 \div 3$

e) $40 \div 7$

f) $50 \div 8$

g) $20 \div 9$

h) $60 \div 7$

i) $80 \div 9$

j) $60 \div 7$

k) $90 \div 8$

l) $50 \div 6$

STEP SEVEN

a) $66 \div 6$

b) $55 \div 5$

c) $77 \div 7$

d) $44 \div 2$

e) $88 \div 4$

f) $66 \div 3$

g) $99 \div 3$

h) $88 \div 2$

STEP EIGHT

a) $65 \div 3$

b) $57 \div 5$

c) $79 \div 7$

d) $89 \div 8$

e) $68 \div 6$

f) $47 \div 4$

g) $78 \div 7$

h) $69 \div 6$

i) $57 \div 5$

j) $23 \div 2$

k) $65 \div 2$

l) $95 \div 3$

STEP NINE

a) $62 \div 3$

b) $54 \div 5$

c) $76 \div 7$

d) $87 \div 8$

e) $64 \div 6$

f) $42 \div 4$

g) $73 \div 7$

h) $61 \div 6$

i) $52 \div 5$

j) $21 \div 2$

k) $65 \div 6$

l) $92 \div 3$

STEP TEN

a) $78 \div 3$

b) $65 \div 5$

c) $91 \div 7$

d) $96 \div 8$

e) $96 \div 6$

f) $92 \div 4$

g) $84 \div 7$

h) $78 \div 6$

i) $95 \div 5$

j) $52 \div 2$

k) $84 \div 6$

l) $56 \div 4$

STEP ELEVEN

a) $90 \div 6$

b) $60 \div 5$

c) $60 \div 4$

d) $30 \div 2$

e) $70 \div 5$

f) $50 \div 2$

g) $80 \div 5$

h) $90 \div 2$

STEP TWELVE

a) $77 \div 3$

b) $68 \div 5$

c) $99 \div 7$

d) $87 \div 6$

e) $98 \div 6$

f) $93 \div 4$

g) $86 \div 7$

h) $99 \div 8$

i) $93 \div 5$

j) $57 \div 2$

k) $81 \div 6$

l) $51 \div 4$

STEP THIRTEEN

a) $80 \div 6$

b) $60 \div 3$

c) $70 \div 4$

d) $50 \div 3$

e) $70 \div 3$

f) $80 \div 7$

g) $80 \div 6$

h) $90 \div 4$

STEP FOURTEEN

a) $363 \div 3$

b) $575 \div 5$

c) $784 \div 7$

d) $976 \div 8$

e) $790 \div 5$

f) $660 \div 4$

g) $791 \div 7$

h) $876 \div 6$

i) $985 \div 5$

j) $730 \div 2$

k) $684 \div 6$

l) $764 \div 2$

STEP FIFTEEN

a) $663 \div 3$

b) $575 \div 5$

c) $896 \div 8$

d) $793 \div 7$

e) $791 \div 6$

f) $663 \div 4$

g) $899 \div 7$

h) $770 \div 6$

i) $887 \div 5$

j) $538 \div 2$

k) $917 \div 6$

l) $769 \div 2$

STEP SIXTEEN

a) $303 \div 3$

b) $507 \div 5$

c) $708 \div 7$

d) $809 \div 8$

e) $607 \div 6$

f) $404 \div 4$

g) $603 \div 3$

h) $609 \div 6$

i) $909 \div 9$

j) $209 \div 2$

k) $608 \div 6$

l) $205 \div 2$

STEP SEVENTEEN

a) $300 \div 3$

b) $500 \div 5$

c) $800 \div 7$

d) $900 \div 8$

e) $700 \div 6$

f) $400 \div 4$

g) $500 \div 3$

h) $600 \div 7$

STEP EIGHTEEN

a) $263 \div 3$

b) $475 \div 5$

c) $643 \div 7$

d) $602 \div 8$

e) $591 \div 6$

f) $363 \div 4$

g) $599 \div 7$

h) $570 \div 6$

i) $480 \div 5$

j) $103 \div 2$

k) $597 \div 6$

l) $161 \div 2$