

Long division with dad, mom, sister and brother



Dad, mom, sister, brother?!

These four words (in the acronym DMSB) help you remember the four steps in long division.

- **d**ad = **d**ivide
- **m**om = **m**ultiply
- **s**ister = **s**ubtract
- **b**rother = **b**ring down



Let's walk through an example together.

65 ÷ 5 = ?

$65 \div 5 = 13$

$$\begin{array}{r} 13 \\ 5 \overline{) 65} \\ \underline{-5} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

1. **Divide:** How many times does 5 fit into 6? 1 Time.
Write the 1 on the line.
 2. **Multiply:** What does 5×1 equal?
Write the solution 5 under the 6.
 3. **Subtract:** What is 6 minus 5?
Draw a line and write the solution 1 underneath.
 4. **Bring down:** Bring down the next number of the dividend. In this case we put the 5 next to the 1, making the number 15.
 5. **Divide:** How many times does 5 fit into 15?
 $15 \div 5 = 3$. Write the 3 on the line.
 6. **Multiply:** What does 5×3 equal?
Write the solution 15 under the 15.
 7. **Subtract:** $15 - 15 = 0$.
- We've finished our problem! :)*

Now you: Solve $72 \div 2$ and $84 \div 3$. The acronym **DMSB** will help you.

A large grid of 20 columns and 10 rows, intended for drawing a picture.

Let's do a quick warm-up for your brain!

① Solve the following addition problems!

a) $4 + 7 =$ c) $9 + 5 =$ e) $7 + 2 =$ g) $10 + 7 =$ i) $2 + 6 =$

b) $4 + 8 =$ d) $10 + 9 =$ f) $6 + 6 =$ h) $7 + 7 =$ j) $9 + 9 =$

② Solve the following subtraction problems!

a) $51 - 8 =$

b) $88 - 4 =$

c) $71 - 1 =$

d) $47 - 41 =$

e) $52 - 14 =$

f) $89 - 55 =$

g) $50 - 18 =$

h) $76 - 1 =$

i) $47 - 15 =$

Show your thinking work/take notes here:

[illegible]

③ Solve the following problems!

a) $71 + \square = 76$ d) $56 + \square = 60$ g) $38 + \square = 42$
b) $45 + \square = 48$ e) $54 + \square = 63$ h) $72 + \square = 74$
c) $15 + \square = 21$ f) $57 + \square = 65$ i) $47 + \square = 52$

Show your thinking work/take notes here:

Try transforming these problems from addition to subtraction - that might help you! :)



 Tip

Try transforming these problems from addition to subtraction - that might help you! :)

Let's do a quick warm-up for your brain!

① Solve the following subtraction problems!

a) $17 - 4 =$ c) $15 - 8 =$ e) $18 - 4 =$ g) $10 - 8 =$ i) $14 - 5 =$
b) $13 - 4 =$ d) $16 - 9 =$ f) $14 - 8 =$ h) $10 - 8 =$ j) $13 - 8 =$

① Solve the following addition problems!

a) $75 + 2 =$ d) $22 + 4 =$ g) $44 + 4 =$ j) $7 + 1 =$

b) $43 + 9 =$ e) $36 + 8 =$ h) $90 + 3 =$ k) $68 + 5 =$

c) $54 + 7 =$ f) $83 + 6 =$ i) $78 + 7 =$ l) $69 + 5 =$

Show your thinking work/take notes here:

[illegible]

② Solve the following problems!

a) $10 + \square = 30$ d) $62 + \square = 118$ g) $46 + \square = 94$
b) $29 + \square = 63$ e) $81 + \square = 115$ h) $15 + \square = 82$
c) $16 + \square = 86$ f) $69 + \square = 100$ i) $100 + \square = 164$

Show your thinking work/take notes here:

[illegible]