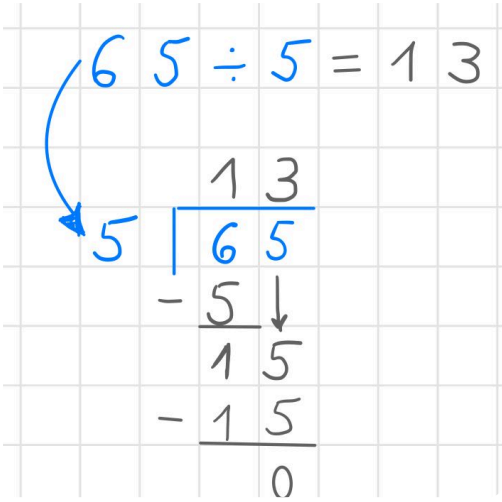
Long division with dad, mom, sister and brother

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 = ?

1. **Divide**: How many times does 5 fit into 6? 1 Time. Write the 1 on the line.
2. **Multiply**: What does 5 x 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 ÷ 5 = 3. Write the 3 on the line.
6. **Multiply**: What does 5 x 3 equal? Write the solution 15 under the 15.
7. **Subtract**: 15 - 15 = 0.

We've finished our problem! :)

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

Angaben zu den Urhebern und Lizenzbedingungen der einzelnen Bestandteile dieses Dokuments finden Sie unter
https://www.tutory.de/entdecken/dokument/introduction-long-division

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

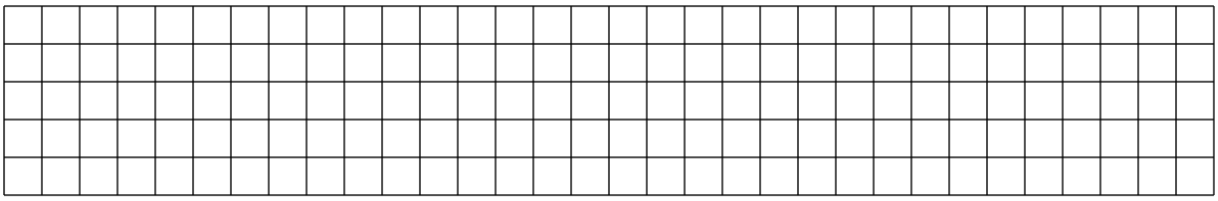
① Solve the following addition problems!

a) 4 + 7 =
b) 4 + 8 =
c) 9 + 5 =
d) 10 + 9 =
e) 7 + 2 =
f) 6 + 6 =
g) 10 + 7 =
h) 7 + 7 =
i) 2 + 6 =
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:



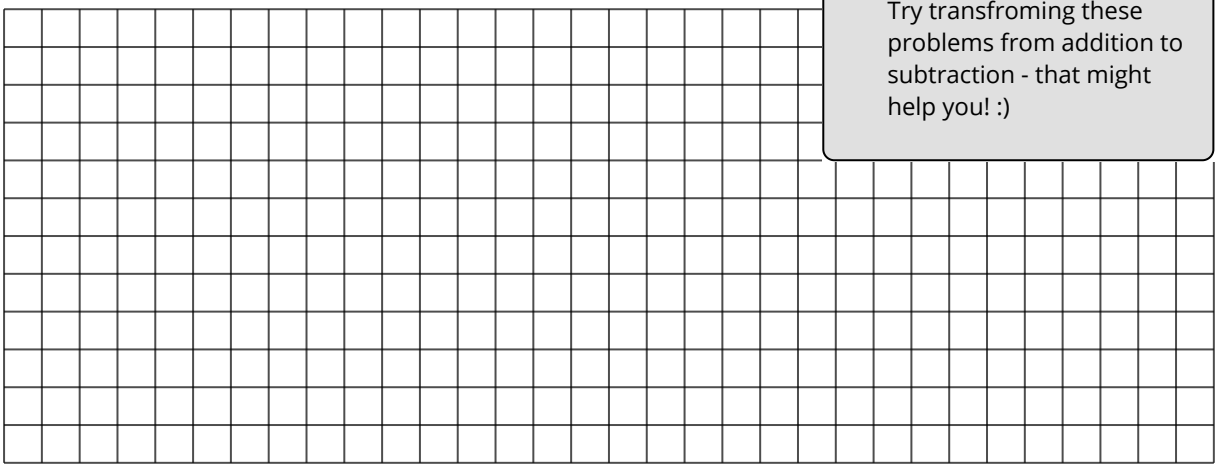
③ Solve the following problems!

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

Show your thinking work/take notes here:

Tip

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



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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:

② Solve the following problems!

a) 10 + ___ = 30 d) 62 + ___ = 118 g) 46 + ___ = 94

b) 29 + ___ = 63 e) 81 + ___ = 115 h) 15 + ___ = 82

c) 16 + ___ = 86 f) 69 + ___ = 100 i) 100 + ___ = 164

Show your thinking work/take notes here:

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