

Manual

tempo60 10'000

3. – 9. Klasse

Fast, accurate mental arithmetic!

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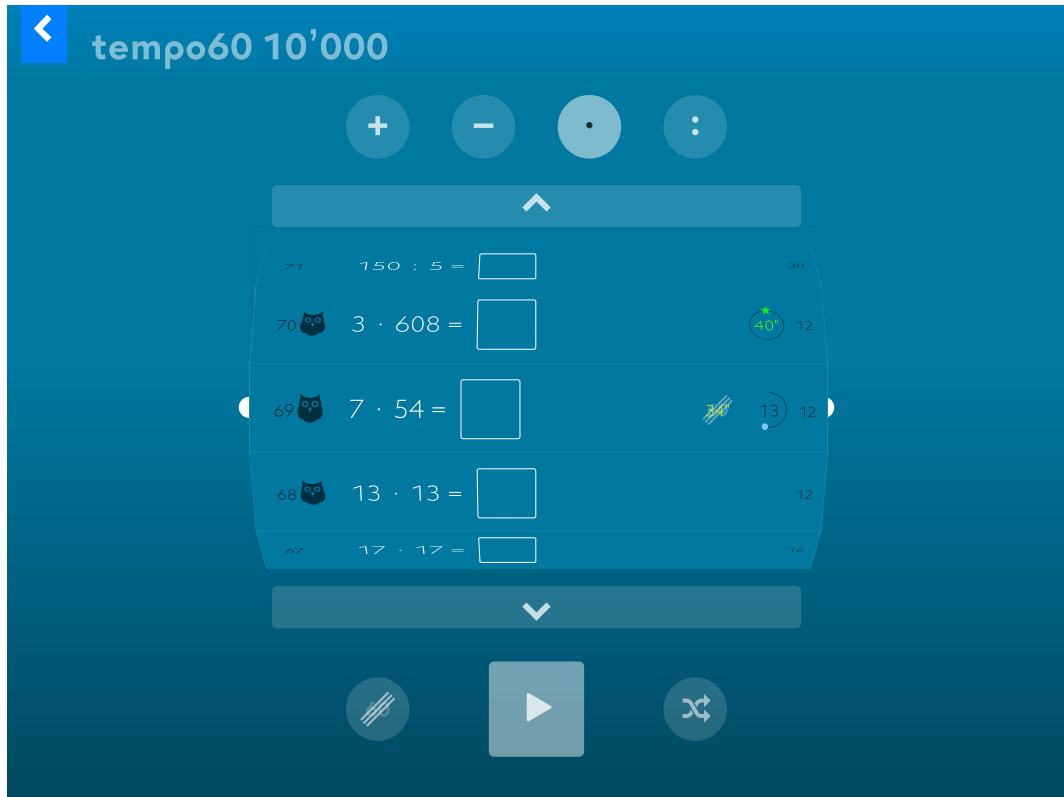
5. Team

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The logo for profax, featuring the word "profax" in a stylized, lowercase, blue font. The letters are connected and have a modern, rounded appearance.

1. Landing page



The landing page is both **exercise selection** and **Training Log**. Here, students select the desired exercise set, determine the work mode and have an insight into their work status.

1.1. Rotate drum



tempo60 10'000 offers **100 exercise sets** with **12, 16, 20** odr **24 exercises** each for training basic operations. Click on the **arrow buttons** to rotate the drum to the desired exercise set. The set in the middle of the drum is active at the start of the exercise.



1.2. Information on the training set



The following properties are displayed in the exercise set:

- Set number
- Special feature
- Example / type of task
- Feedback
- Number of tasks in the set

🦉 Especially difficult tasks

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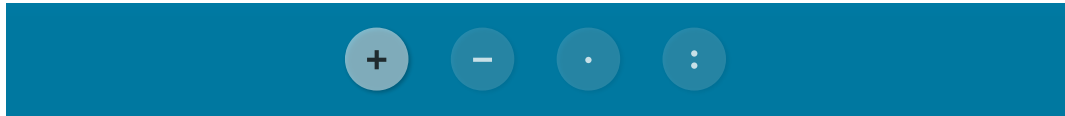
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- ✎ key calculations
- 📊 Series (multiplication)

Some sets contain several types of task (e.g. $x + y = \square$ und $x + \square = y$). In tempo60 10'000, in addition to the sets with exercises in the basic operations, you will also find new exercise types with training sets on the topics **doubling** and **halving**, as well as preparatory exercises and exercises on the topic **dividing with remainder**. You can find a more detailed overview in → [Die tempo60 10'000 exercise sets](#).

1.3. Quick selection of a operation

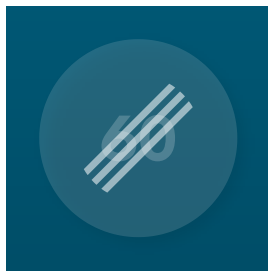


Clicking on an **operation symbol** directly selects the sets with the selected operation. Several symbols are active for mixed sets.

1.4. Two operating modes

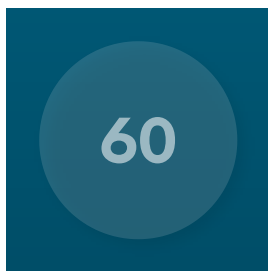
Click on the **60 button** to switch between training mode and test mode.

1.4.1. Training mode



In training mode, students solve the tasks in a set **without a time limit**. The tasks are provided randomly from a larger pool of tasks and shuffled each time the set is started.

1.4.2. Test mode

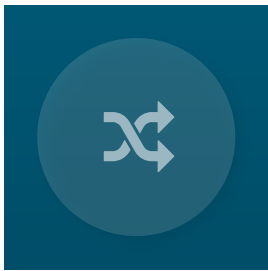


In test mode, students work **against the clock**. They try to solve the tasks in the set in 60 seconds if possible. The order of the tasks always remains the same.

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1.5. Random set

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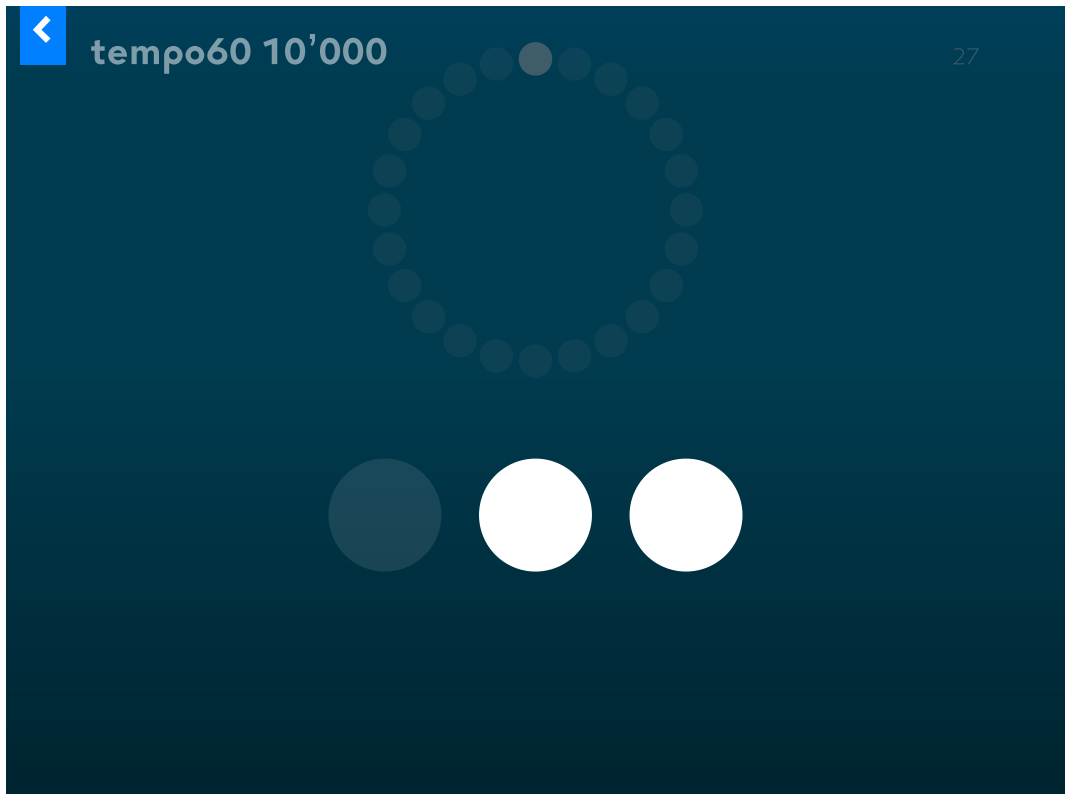


By clicking on the **random button**, the computer assigns the student a randomly selected set in the activated work mode.

2. Working with a tempo60 exercise set

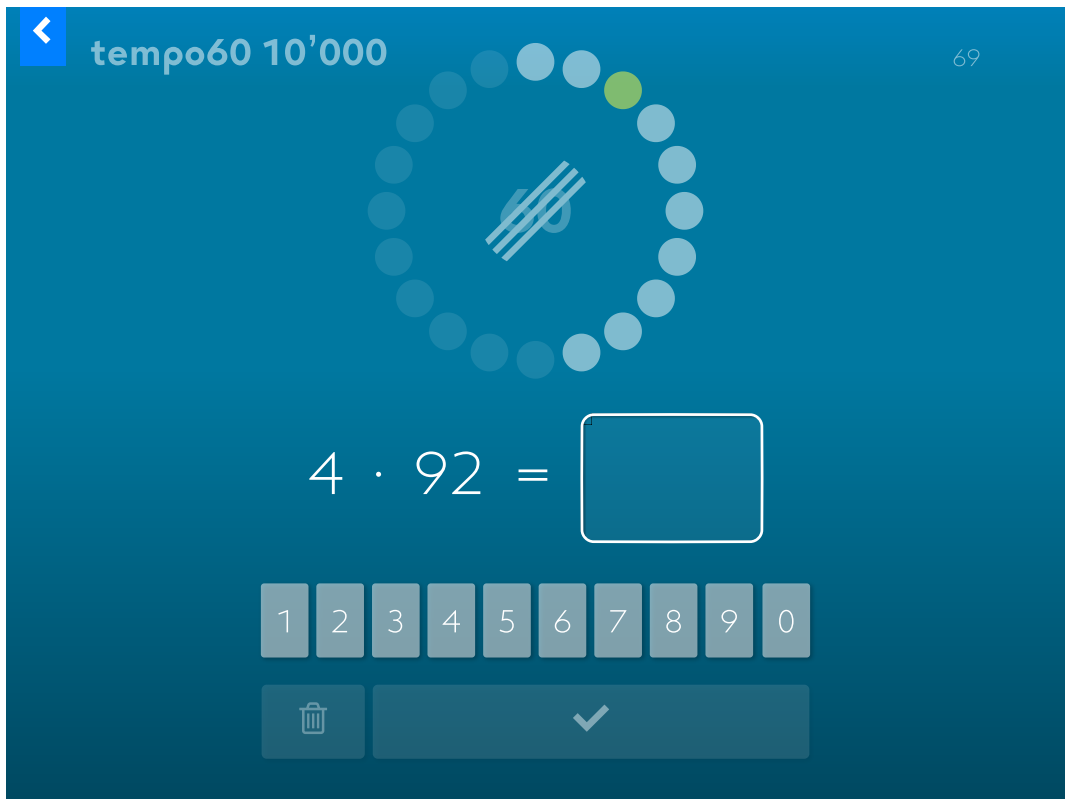


Clicking on the **start button** starts the countdown for the selected exercise set.

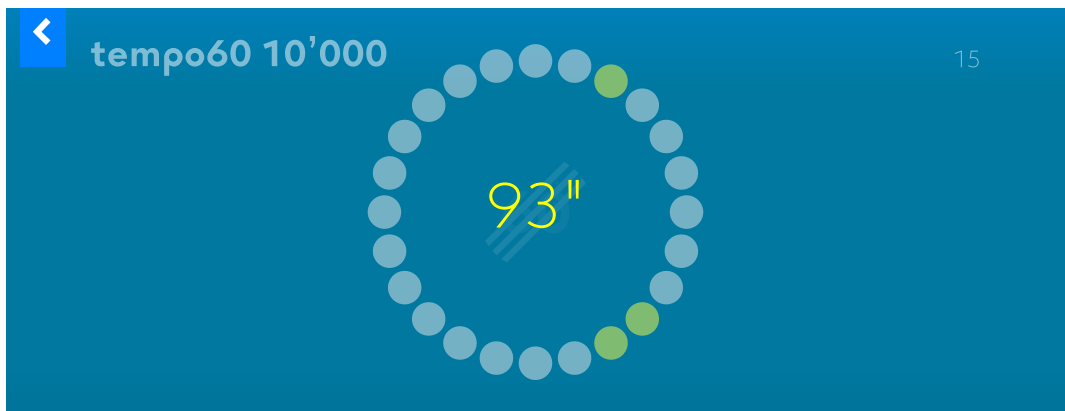


The countdown starts and the exercise begins at zero.

2.1. Working in training mode



The dots in the circle represent the tasks in the set. The results are entered using the keyboard or by tapping on the numbers on the screen. The entry is confirmed with **ENTER** or by clicking on the ✓ button on the screen. The entry can be corrected by clicking on 🗑️.



The feedback shows how much time in seconds was needed to solve the tasks. Yellow dots represent results that had to be corrected.



The training mode symbol appears on the roller.



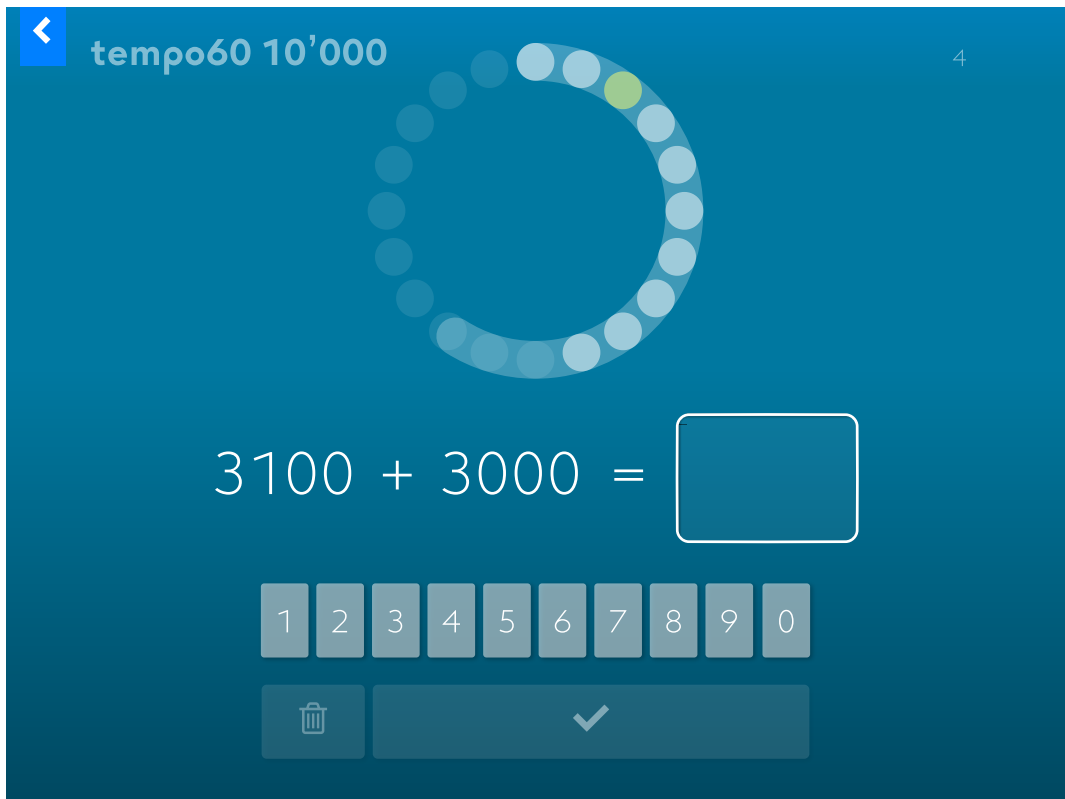
If the result was achieved in less than 60 seconds, the time required is also displayed.

If the student starts the set again, the best previous training time is displayed.

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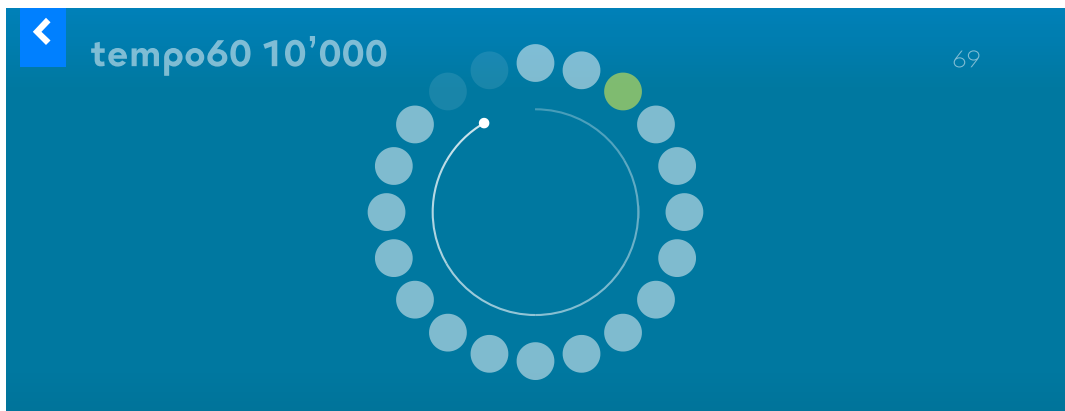


2.2. Working in test mode



The dots in the circle represent the tasks in the set. Behind the task dots, the running time is visible as a filling arc. Students can see at any time whether they can keep up with the running clock.

Test with a time over 60 seconds



White dots stand for correctly solved tasks, yellow dots for incorrectly solved and corrected tasks.

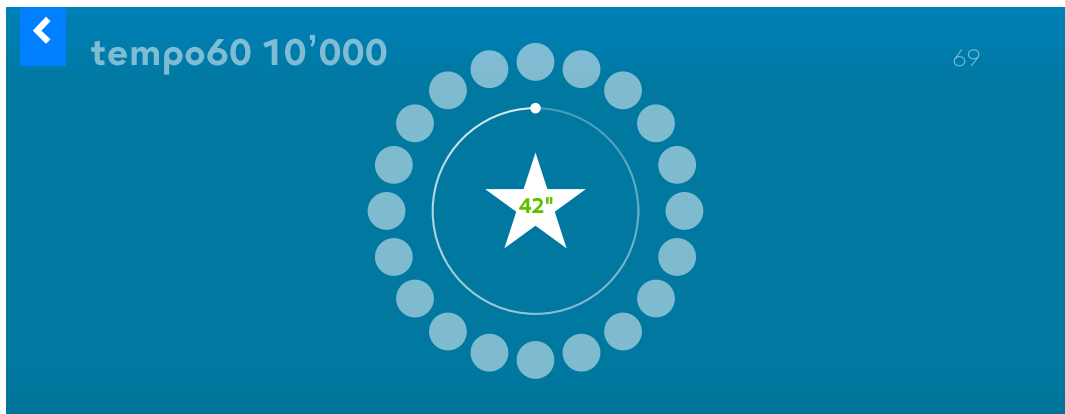


If there is no better test result, the number of tasks that were solved within 60 seconds is displayed on the start page.

Test with a time under 60 seconds

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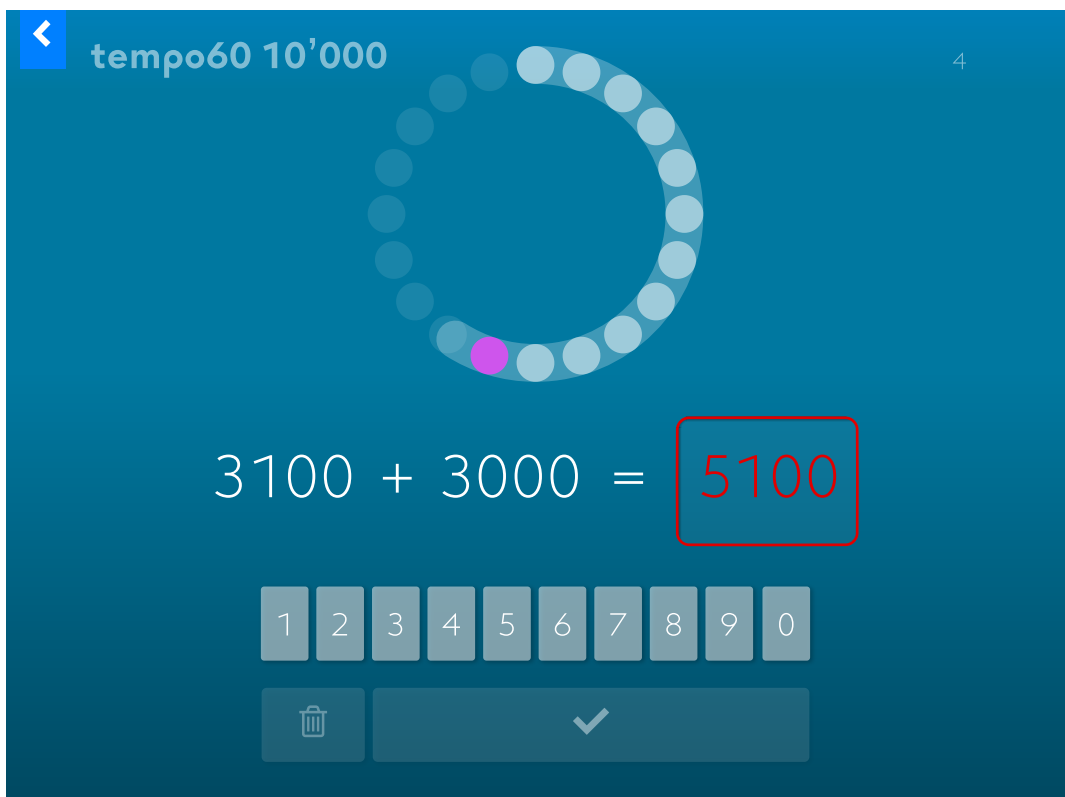


The exercise evaluation shows how much time was needed to solve the tasks. If you manage to solve the 24 tasks within 60 seconds, you are rewarded with a star.



The best test time to date is displayed on the start page in the edited set. The star also appears on the drum. The best result is retained.

2.3. Behavior of tempo60 in the event of errors



Incorrectly entered results are displayed in red. A purple dot appears on the clock and the task must be solved again. The dot turns yellow as soon as the task has been solved correctly.

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3. Work plan / Progress profaxonline

The **Progress** area allows the teacher to accompany students on their individual learning path.

Teachers only see students from groups to which they themselves belong. To do this, the administrator must assign the responsible teacher to the corresponding groups. A teacher can be responsible for several groups.

In the gray column on the left, click on **Progress**.

Select a person.

All learning modules assigned to the person are displayed in the *Progress* column. Show or hide all exercises of a learning module by clicking on the title of the learning module.

In tempo60, one line is displayed for each exercise for the training (e as in *exercise*) and one for the test.

If you activate the checkbox for **only worked exercises**, only the exercises in which the student is currently working or whose training has been completed are displayed.

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3.1. View learning progress

Exercise 1 – Level 1				
Exercise 1 – Level 2				
Exercise 7 – Level 1				

For exercises with individual tasks, the learning status is displayed with a colored field for each task.

Birds: Exercise 1A				
Technology: Exercise 1A				
Rhythm: Exercise2B				

For exercises with a flashcard, the learning status is displayed as a progress bar.

They mean:

- green** Answer correct
- red** Answer incorrect
- orange** the task is currently under revision
- gray** not worked on it

3.2. Reset the exercise

Exercises can be reset by clicking on

3.3. Work plan

By clicking on , exercises can be added to or removed from the work plan of the selected student, by clicking on of the selected group. If an exercise is in the work plan, the name of the training module and the progress indicator are highlighted in yellow. If the line is green, the training work is complete.

3.4. 7 Days Stats and Timeline

If you work with a *weekly plan*, you will receive feedback on how long you have worked with the individual learning modules in the last seven days under **7 Days Stats**.

The **Timeline** shows when which exercises have been completed in the last 30 days. The **red** and **green** numbers indicate how many tasks were solved correctly or incorrectly.

The following parameters are recorded:

- if a child works before 07.00, no time is displayed and all tasks of the same exercise are combined;
- if a child works after 07.00, the time is displayed and all tasks of the same exercise are combined if they are done within an hour;
- if a child works after 5 p.m., no time is displayed and all tasks of the same exercise are combined;
- if a child works past midnight, the entry is spread over both days; the time shown starts when the first task is solved;
- if the child is inactive, the time is not counted.

4. The tempo60 10'000 exercise sets

Addition

Set	Opt	Aufgabentyp	Anzahl	Icon	Beispiele
1	+	ZE + ZE	16	oft	36 + 17 = <input type="checkbox"/>
2	+	HZ + Z	24	∅	420 + 60 = <input type="checkbox"/>
3	+	HZ + H	24	∅	360 + 400 = <input type="checkbox"/>
4	+	TH + T	20	∅	2500 + 6000 = <input type="checkbox"/>
5	+	Set 2- 4 gemischt	20	∅	2600 + 3000 = <input type="checkbox"/> 430 + 50 = <input type="checkbox"/>
6	+	Addition mit mehreren Stellenwerten	16	∅	2050 + 302 = <input type="checkbox"/> 6004 + 210 = <input type="checkbox"/>
7	+	Addition mit mehreren Stellenwerten	16	∅	5050 + 2030 = <input type="checkbox"/> 4010 + 550 = <input type="checkbox"/>
8	+	HZ + Z	20	immer	380 + 40 = <input type="checkbox"/>
9	+	HZE + Z	20	immer	654 + 70 = <input type="checkbox"/>
10	+	TH + H	20	immer	6500 + 800 = <input type="checkbox"/>
11	+	HZE + E	20	oft	706 + 7 = <input type="checkbox"/> 835 + 9 = <input type="checkbox"/>
12	+	THZ + Z	16	oft	1050 + 60 = <input type="checkbox"/> 2360 + 90 = <input type="checkbox"/>
13	+	HZ + HZ TH + TH	16	oft	370 + 480 = <input type="checkbox"/> 2600 + 5900 = <input type="checkbox"/>
14	+	ZE + <input type="checkbox"/> = ZE	16	oft	56 + <input type="checkbox"/> = 92
15	+	Ergänzen um ganze Z/H/T	20	∅	480 + <input type="checkbox"/> = 780 2300 + <input type="checkbox"/> = 8300
16	+	HZ ergänzen um Z	24	immer	550 + <input type="checkbox"/> = 620
17	+	TH ergänzen um H	20	immer	1600 + <input type="checkbox"/> = 2300
18	+	Ergänzen mit mehreren Stellenwerten	16	∅	250 + <input type="checkbox"/> = 790 3400 + <input type="checkbox"/> = 6800
19	+	Ergänzen mit mehreren Stellenwerten	16	∅	3205 + <input type="checkbox"/> = 3808 1370 + <input type="checkbox"/> = 1790
20	+	Ergänzen auf Tausend/Zehntausend	20		650 + <input type="checkbox"/> = 1000 3400 + <input type="checkbox"/> = 10000
21	+	Ergänzen auf ganze Hunderter/Tausender	16		30 + <input type="checkbox"/> = 6000 2 + <input type="checkbox"/> = 700
22	+	Ergänzen auf Zehntausend	12		480 + <input type="checkbox"/> = 10000 77 + <input type="checkbox"/> = 10000
23	+	HZ + <input type="checkbox"/> = HZ TH + <input type="checkbox"/> = TH	16	immer	170 + <input type="checkbox"/> = 950 3400 + <input type="checkbox"/> = 8200

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Subtraction








Set	Opt	Aufgabentypen	Anzahl		Icon	Beispiele
24	-	ZE - ZE	16	oft		45 - 28 = <input type="checkbox"/>
25	-	HZ - Z	24	∅		280 - 50 = <input type="checkbox"/>
26	-	HZ - H	20	∅		690 - 400 = <input type="checkbox"/>
27	-	TH - T	20	∅		8300 - 3000 = <input type="checkbox"/>
28	-	Set 24- 26 gemischt	20	∅		760 - 400 = <input type="checkbox"/> 8100 - 3000 = <input type="checkbox"/>
29	-	HZ - HZ TH - TH	20	∅		450 - 320 = <input type="checkbox"/> 7700 - 1500 = <input type="checkbox"/>
30	-	H - HZ T - TH	20			800 - 360 = <input type="checkbox"/> 6000 - 4300 = <input type="checkbox"/>
31	-	HZ - Z	20	immer		320 - 70 = <input type="checkbox"/>
32	-	TH - H	20	immer		4600 - 800 = <input type="checkbox"/>
33	-	H/T/ZT - Zahl mit einem Stellenwert	20			10000 - 300 = <input type="checkbox"/> 1000 - 40 = <input type="checkbox"/>
34	-	HZE - E THZ - Z	16	immer		553 - 6 = <input type="checkbox"/> 8710 - 40 = <input type="checkbox"/>
35	-	HZE - E THZ - Z	16	immer		903 - 7 = <input type="checkbox"/> 7020 - 80 = <input type="checkbox"/>
36	-	H/T/ZT - Zahl mit zwei Stellenwerten	16	oft		10000 - 308 = <input type="checkbox"/> 1000 - 110 = <input type="checkbox"/>
37	-	HZ - HZ TH - TH	20	oft		820 - 170 = <input type="checkbox"/> 6500 - 2800 = <input type="checkbox"/>
38	-	ZE - <input type="checkbox"/> = ZE	16	oft		63 - <input type="checkbox"/> = 27
39	-	Differenz (Z/H/T)	20	∅		480 - <input type="checkbox"/> = 180 8500 - <input type="checkbox"/> = 3500
40	-	HZ - <input type="checkbox"/> = HZ TH - <input type="checkbox"/> = TH	16	∅		790 - <input type="checkbox"/> = 240 8400 - <input type="checkbox"/> = 1100
41	-	Differenz zu T Ein Stellenwert	24			1000 - <input type="checkbox"/> = 940 1000 - <input type="checkbox"/> = 991
42	-	Differenz HZ - <input type="checkbox"/> = HZ (Z)	24	immer		540 - <input type="checkbox"/> = 480
43	-	Differenz TH - <input type="checkbox"/> = TH (H)	20	immer		8300 - <input type="checkbox"/> = 7700
44	-	Differenz zu ZT Bis 3 Stellenwerte	16			10000 - <input type="checkbox"/> = 9090 10000 - <input type="checkbox"/> = 9909
45	-	Differenz zu (Z)T 2 Stellenwerte	16			7000 - <input type="checkbox"/> = 6110 3000 - <input type="checkbox"/> = 2914
46	-	Differenz ZT zu ganzen T/H/Z/E	16			10000 - <input type="checkbox"/> = 30 10000 - <input type="checkbox"/> = 600
47	-	HZ - <input type="checkbox"/> = HZ TH - <input type="checkbox"/> = TH	16	immer		720 - <input type="checkbox"/> = 240 8400 - <input type="checkbox"/> = 1700

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Multiplication

Set	Opt	Aufgabentypen	Anzahl	Reihen	Icon	Beispiele
48	*	Zehnermaleins	20	alle		4 * 40 = <input type="checkbox"/>
49	*	Zehnermaleins	20	alle		3 * 70 = <input type="checkbox"/>
50	*	Zehnermaleins	20	alle		9 * 80 = <input type="checkbox"/>
51	*	Zehnermaleins	20	alle		7 * 70 = <input type="checkbox"/>
52	*	Zehnermaleins	20	alle		3 * 90 = <input type="checkbox"/>
53	*	Einmaleins mit Z/H/T	20	alle		50 * 60 = <input type="checkbox"/> 800 * 6 = <input type="checkbox"/>
54	*	Zehnermaleins	20	alle		240 = <input type="checkbox"/> * 60
55	*	Zehnermaleins	20	alle		420 = <input type="checkbox"/> * 70
56	*	Zehnermaleins	20	alle		150 = <input type="checkbox"/> * 3
57	*	Zehnermaleins	20	alle		630 = <input type="checkbox"/> * 90
58	*	Zehnermaleins	20	alle		280 = <input type="checkbox"/> * 4
59	*	Einmaleins mit Z/H/T	20	alle		4200 = <input type="checkbox"/> * 70 5400 = <input type="checkbox"/> * 600
60	*	Verdoppeln bis 100	20			Das Doppelte von 38
61	*	Verdoppeln bis 200	16			Das Doppelte von 67
62	*	Verdoppeln HZ/TH	16			Das Doppelte von 3600 Das Doppelte von 870
63	*	11er-Reihe	20	11-er		6 * 11 = <input type="checkbox"/> 33 = <input type="checkbox"/> * 11
64	*	12er-Reihe	20	12-er		3 * 12 = <input type="checkbox"/> 96 = <input type="checkbox"/> * 12
65	*	15er-Reihe	20	15-er		6 * 15 = <input type="checkbox"/> 30 = <input type="checkbox"/> * 15
66	*	25er-Reihe	20	25-er		3 * 25 = <input type="checkbox"/> 175 = <input type="checkbox"/> * 25
67	*	Quadratzahlen von 10 bis 25 aufsteigend	16			17 * 17 = <input type="checkbox"/>
68	*	Quadratzahlen von 10 bis 25 gemischt	12			13 * 13 = <input type="checkbox"/>
69	*	E * ZE	12			7 * 54 = <input type="checkbox"/>
70	*	E * HZE mit Wertziffer 0	12			3 * 608 = <input type="checkbox"/> 5 * 270 = <input type="checkbox"/>

Division

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Set	Opt	Aufgabentypen	Anzahl	Reihen	Icon	Beispiele
71	:	Zehnermaleins: Division	20	alle		150 : 5 = □
72	:	Zehnermaleins: Division	20	alle		320 : 8 = □
73	:	Zehnermaleins: Division	20	alle		250 : 5 = □
74	:	Zehnermaleins: Division	20	alle		480 : 6 = □
75	:	Einmaleins mit Z/H/T: Division	20	alle		2400 : 80 = □ 6000 : 300 = □
76	:	Zehnermaleins: Division	20	alle		150: : □ = 3
77	:	Zehnermaleins: Division	20	alle		360 : □ = 60
78	:	Zehnermaleins: Division	20	alle		450 : □ = 9
79	:	Zehnermaleins: Division	20	alle		240 : □ = 30
80	:	Einmaleins mit Z/H/T: Division	20	alle		3600 : □ = 90 1400 : □ = 7
81	:	Halbieren bis 100	20			Die Hälfte von 68
82	:	Halbieren bis 200	16			Die Hälfte von 154
83	:	Halbieren HZ/TH	16			Die Hälfte von 3800 Die Hälfte von 870
84	:	Nächst kleinere Zahl einer Reihe	20	3-er 5-er		3er-Reihe < 20 5er-Reihe < 47
85	:	Nächst kleinere Zahl einer Reihe	20	4-er		4er-Reihe < 13
86	:	Nächst kleinere Zahl einer Reihe	20	6-er		6er-Reihe < 41
87	:	Nächst kleinere Zahl einer Reihe	20	7-er		7er-Reihe < 33
88	:	Nächst kleinere Zahl einer Reihe	20	8-er		8er-Reihe < 38
89	:	Nächst kleinere Zahl einer Reihe	20	9-er		9er-Reihe < 17
90	:	Nächst kleinere Zahl einer Reihe, gemischt	16	alle		8er-Reihe < 43 6er-Reihe < 27
91	:	Division mit Rest	20	3-er 5-er		19 : 3 = 6 Rest □ 38 : 5 = 7 Rest □
92	:	Division mit Rest	20	4-er		14 : 4 = 3 Rest □
93	:	Division mit Rest	20	6-er		26 : 6 = 4 Rest □
94	:	Division mit Rest	20	7-er		53 : 7 = 7 Rest □
95	:	Division mit Rest	20	8-er		62 : 8 = 7 Rest □
96	:	Division mit Rest	20	9-er		34 : 9 = 3 Rest □
97	:	Division mit Rest Reihen gemischt	16	alle		57 : 6 = 9 Rest □ 33 : 4 = 8 Rest □

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98	:	Division bis 10000 mit Rest	16	alle		2800 : 800 = 3 Rest <input type="checkbox"/> 230 : 40 = 5 Rest <input type="checkbox"/>
99	:	HZE : E = ZE	12			238 : 7 = <input type="checkbox"/>
100	:	THZE : E = HZE	12			3960 : 6 = <input type="checkbox"/> 1521 : 3 = <input type="checkbox"/>

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