LEARNING MISSION 1 · HH1X1-M01

My times tables compass

First, find out what you really know by heart. After that, you'll practise hero tricks for the sums where your head usually gets stuck. The "x" is a times sign!

Don't work them out yet!

Just take a quick look at these five sums. Right now it's only about how you feel: how sure are you that you know the answers **by heart**?

6 × 7 = ? **7 × 8 = ?** **8 × 9 = ?** **6 × 8 = ?** **7 × 9 = ?**

How sure do you feel that you know the answers to these sums by heart?

◯ 1 not sure at all	◯ 2 not very sure	◯ 3 so-so	◯ 4 quite sure	◯ 5 very sure

Your rule for today

1. First, find out which answers are there straight away.
2. Then practise only the important hero tricks that don't come straight away yet.
3. If you get stuck: don't think harder – switch straight away to something you know for sure.

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What do you already know?

Now you're going to build your own times tables map. Always write down the whole sum with its answer, for example: 5 × 8 = 40. The order doesn't matter. You do NOT have to fill every box. The numbers in front just count the boxes, so that later you know how many you already know by heart.

IMPORTANT: In level 1, only write down sums you know by heart straight away, WITHOUT thinking.

LEVEL 1 – I know it STRAIGHT AWAY

Write down complete sums whose answer is in your head straight away – no working out, no searching.

1. **1x1 = 1**	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.
21.	22.	23.	24.
25.	26.	27.	28.
29.	30.	31.	32.
33.	34.	35.	36.
37.	38.	39.	40.

Important:
If you have to think first, the sum doesn't belong in level 1 yet. That's exactly the difference we want to get right.

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What do you know if you think about it?

Now come the sums that weren't there straight away – the ones where you might have to think about which other sums there even are. But if you have to work a sum out, it doesn't go here either: it goes straight into level 3!

LEVEL 2 – With A LITTLE thinking

Which other sums do you know if you search your head for a moment?

1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	21.
22.	23.	24.
25.	26.	27.
28.	29.	30.

LEVEL 3 – With LOTS of thinking

Which other sums can you only get if you search for longer, count or **work them out**?

1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	21.
22.	23.	24.
25.	26.	27.
28.	29.	30.

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What's still missing?

Here are all the times tables up to 10 × 10. Find each sum in your three lists and circle where it belongs for you. If a sum isn't in any of your lists, just leave it – that way you'll spot it too!

S straight away	**Q** quick think	**L** long think	**?** missing so far

1×1 S Q L ?	**1×2** S Q L ?	**1×3** S Q L ?	**1×4** S Q L ?	**1×5** S Q L ?	**1×6** S Q L ?	**1×7** S Q L ?	**1×8** S Q L ?	**1×9** S Q L ?	**1×10** S Q L ?
2×1 S Q L ?	**2×2** S Q L ?	**2×3** S Q L ?	**2×4** S Q L ?	**2×5** S Q L ?	**2×6** S Q L ?	**2×7** S Q L ?	**2×8** S Q L ?	**2×9** S Q L ?	**2×10** S Q L ?
3×1 S Q L ?	**3×2** S Q L ?	**3×3** S Q L ?	**3×4** S Q L ?	**3×5** S Q L ?	**3×6** S Q L ?	**3×7** S Q L ?	**3×8** S Q L ?	**3×9** S Q L ?	**3×10** S Q L ?
4×1 S Q L ?	**4×2** S Q L ?	**4×3** S Q L ?	**4×4** S Q L ?	**4×5** S Q L ?	**4×6** S Q L ?	**4×7** S Q L ?	**4×8** S Q L ?	**4×9** S Q L ?	**4×10** S Q L ?
5×1 S Q L ?	**5×2** S Q L ?	**5×3** S Q L ?	**5×4** S Q L ?	**5×5** S Q L ?	**5×6** S Q L ?	**5×7** S Q L ?	**5×8** S Q L ?	**5×9** S Q L ?	**5×10** S Q L ?
6×1 S Q L ?	**6×2** S Q L ?	**6×3** S Q L ?	**6×4** S Q L ?	**6×5** S Q L ?	**6×6** S Q L ?	**6×7** S Q L ?	**6×8** S Q L ?	**6×9** S Q L ?	**6×10** S Q L ?
7×1 S Q L ?	**7×2** S Q L ?	**7×3** S Q L ?	**7×4** S Q L ?	**7×5** S Q L ?	**7×6** S Q L ?	**7×7** S Q L ?	**7×8** S Q L ?	**7×9** S Q L ?	**7×10** S Q L ?
8×1 S Q L ?	**8×2** S Q L ?	**8×3** S Q L ?	**8×4** S Q L ?	**8×5** S Q L ?	**8×6** S Q L ?	**8×7** S Q L ?	**8×8** S Q L ?	**8×9** S Q L ?	**8×10** S Q L ?
9×1 S Q L ?	**9×2** S Q L ?	**9×3** S Q L ?	**9×4** S Q L ?	**9×5** S Q L ?	**9×6** S Q L ?	**9×7** S Q L ?	**9×8** S Q L ?	**9×9** S Q L ?	**9×10** S Q L ?
10×1 S Q L ?	**10×2** S Q L ?	**10×3** S Q L ?	**10×4** S Q L ?	**10×5** S Q L ?	**10×6** S Q L ?	**10×7** S Q L ?	**10×8** S Q L ?	**10×9** S Q L ?	**10×10** S Q L ?

Important:

The question marks are especially valuable. Now you know exactly where you don't have a sure way yet. On the next page, you'll pick the most important hero tricks for them.

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Find your hero tricks

Hero tricks are sums that help you solve lots of tricky ones. Each one is a part of the sum that helps you find the right answer. Look for each of them on your times tables map and mark your level.

Fives tricks

5×6 = 30 My level: S Q L ?	**5×7 = 35** My level: S Q L ?	**5×8 = 40** My level: S Q L ?	**5×9 = 45** My level: S Q L ?

Tens tricks

10×6 = 60 My level: S Q L ?	**10×7 = 70** My level: S Q L ?	**10×8 = 80** My level: S Q L ?	**10×9 = 90** My level: S Q L ?

Square tricks

6×6 = 36 My level: S Q L ?	**7×7 = 49** My level: S Q L ?	**8×8 = 64** My level: S Q L ?	**9×9 = 81** My level: S Q L ?

Double tricks

2×6 = 12 My level: S Q L ?	**2×7 = 14** My level: S Q L ?	**2×8 = 16** My level: S Q L ?	**2×9 = 18** My level: S Q L ?

What you'll practise now

Everything with an S is already safe in your head. Choose up to 6 hero tricks marked Q, L or ? and write them in here. Say each answer three times, in a different order each time.

1. _____ = _____
2. _____ = _____
3. _____ = _____
4. _____ = _____
5. _____ = _____
6. _____ = _____

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Use your hero tricks – part 1

Now you'll use your fives and tens tricks as a safe starting point.

How it works: Only do the cards whose hero trick you chose to practise on page 5. Use the trick first – even if you already know the answer.

6 × 6

Hero trick: 5 × 6 = 30

Small step: 30 + 6 = _____

Answer: _____

6 × 7

Hero trick: 5 × 7 = 35

Small step: 35 + 7 = _____

Answer: _____

6 × 8

Hero trick: 5 × 8 = 40

Small step: 40 + 8 = _____

Answer: _____

6 × 9

Hero trick: 5 × 9 = 45

Small step: 45 + 9 = _____

Answer: _____

9 × 6

Hero trick: 10 × 6 = 60

Small step: 60 – 6 = _____

Answer: _____

9 × 7

Hero trick: 10 × 7 = 70

Small step: 70 – 7 = _____

Answer: _____

9 × 8

Hero trick: 10 × 8 = 80

Small step: 80 – 8 = _____

Answer: _____

9 × 9

Hero trick: 10 × 9 = 90

Small step: 90 – 9 = _____

Answer: _____

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Use your hero tricks – part 2

Now you'll use square and double tricks as a safe starting point.

How it works: Only do the cards whose hero trick you chose to practise on page 5. Use the trick first – even if you already know the answer.

6 × 7

Hero trick: 6 × 6 = 36

Small step: 36 + 6 = _____

Answer: _____

7 × 8

Hero trick: 7 × 7 = 49

Small step: 49 + 7 = _____

Answer: _____

8 × 9

Hero trick: 8 × 8 = 64

Small step: 64 + 8 = _____

Answer: _____

9 × 8

Hero trick: 9 × 9 = 81

Small step: 81 – 9 = _____

Answer: _____

4 × 6

Hero trick: 2 × 6 = 12

Small step: double 12 = _____

Answer: _____

4 × 7

Hero trick: 2 × 7 = 14

Small step: double 14 = _____

Answer: _____

4 × 8

Hero trick: 2 × 8 = 16

Small step: double 16 = _____

Answer: _____

4 × 9

Hero trick: 2 × 9 = 18

Small step: double 18 = _____

Answer: _____

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Now without help

The same tricky sums as at the start. Work them out now. If the answer doesn't come straight away, switch directly to a hero trick.

6 × 7 **Answer:** _____ Came straight away? Yes / No

If not: my hero trick was _____

7 × 8 **Answer:** _____ Came straight away? Yes / No

If not: my hero trick was _____

8 × 9 **Answer:** _____ Came straight away? Yes / No

If not: my hero trick was _____

6 × 8 **Answer:** _____ Came straight away? Yes / No

If not: my hero trick was _____

7 × 9 **Answer:** _____ Came straight away? Yes / No

If not: my hero trick was _____

How sure do you feel NOW that you know the answers to these sums by heart?

◯ 1 not sure at all	◯ 2 not very sure	◯ 3 so-so	◯ 4 quite sure	◯ 5 very sure

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Your most important sentence

When I'm stuck, I don't have to think harder.
I look for something I already know for sure.

Did you enjoy it? (Colour one in!)



Do you want to try the mission again tomorrow?

(Maybe by then you'll remember a little bit more! You already know a lot!)

☐ Yes ☐ No ☐ Maybe

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