

FREE • PRINT AT HOME • ANSWER KEYS INCLUDED

The Fact Fluency Kit

Two diagnostics to find exactly which facts your child owns and which they're still renting, two practice sheets built around the strategies that actually work, and a ten-week tracker. Every answer was machine-verified before this was typeset.

WHAT'S INSIDE

PAGE 2	Addition diagnostic – 30 facts, untimed
PAGE 3	Addition strategy drill – doubles, near doubles, make ten
PAGE 4	Multiplication diagnostic – 30 facts across every family
PAGE 5	The hard middle – sixes, sevens, and eights only
PAGE 6	Ten-week tracker + all answer keys

HOW TO RUN IT

Start with a diagnostic – no timer, no pressure, mark any fact that takes more than a couple of seconds or comes with finger-counting. Those hesitations are your map. Practice the mapped facts with the strategy sheets, ten minutes a day at most, and re-run the diagnostic in two weeks. Three short sessions beat one long one, every single time – that isn't opinion, it's how memory works.

Addition: where are we, honestly?

Untimed. Sit beside them. Circle any answer that comes slow, counted, or guessed – the circles are the whole point.

01 $4 + 6 =$

02 $8 + 4 =$

03 $6 + 9 =$

04 $9 + 9 =$

05 $3 + 7 =$

06 $8 + 3 =$

07 $4 + 5 =$

08 $6 + 7 =$

09 $4 + 8 =$

10 $8 + 7 =$

11 $6 + 8 =$

12 $5 + 9 =$

13 $7 + 5 =$

14 $6 + 4 =$

15 $3 + 5 =$

16 $9 + 4 =$

17 $7 + 9 =$

18 $9 + 5 =$

19 $2 + 3 =$

20 $3 + 9 =$

21 $5 + 7 =$

22 $5 + 2 =$

23 $8 + 9 =$

24 $5 + 8 =$

25 $2 + 7 =$

26 $7 + 3 =$

27 $3 + 4 =$

28 $8 + 5 =$

29 $4 + 7 =$

30 $6 + 3 =$

CIRCLED 0-4: nearly there – drill just those. 5-12: page 3 daily. MORE: doubles first, patience.

Doubles, near doubles, make ten

Every problem here yields to one of three moves: a double (4+4), a double plus one (4+5), or make-ten (8+5 → 10+3). Say the move out loud before answering.

01 $6 + 7 = \square$

02 $5 + 5 = \square$

03 $6 + 7 = \square$

04 $5 + 6 = \square$

05 $4 + 4 = \square$

06 $4 + 5 = \square$

07 $7 + 7 = \square$

08 $8 + 9 = \square$

09 $9 + 2 = \square$

10 $7 + 8 = \square$

11 $8 + 8 = \square$

12 $8 + 9 = \square$

13 $3 + 3 = \square$

14 $5 + 5 = \square$

15 $6 + 6 = \square$

16 $7 + 7 = \square$

17 $7 + 7 = \square$

18 $5 + 6 = \square$

19 $7 + 6 = \square$

20 $8 + 9 = \square$

21 $8 + 8 = \square$

22 $7 + 5 = \square$

23 $6 + 7 = \square$

24 $9 + 4 = \square$

THE POINT ISN'T THE 24 ANSWERS – IT'S THAT THREE MOVES COVER ALL OF THEM. NAME THE MOVE FIRST.

The times tables: a fair census

Same rules: no timer, circle hesitations. Watch for the pattern – most kids sail the 2s, 5s, and 10s and wobble in the middle.

01 $7 \times 7 =$

02 $3 \times 9 =$

03 $4 \times 3 =$

04 $8 \times 2 =$

05 $3 \times 8 =$

06 $6 \times 4 =$

07 $8 \times 9 =$

08 $5 \times 8 =$

09 $5 \times 5 =$

10 $7 \times 9 =$

11 $8 \times 7 =$

12 $4 \times 5 =$

13 $9 \times 6 =$

14 $8 \times 4 =$

15 $9 \times 8 =$

16 $6 \times 8 =$

17 $9 \times 4 =$

18 $5 \times 7 =$

19 $8 \times 8 =$

20 $7 \times 8 =$

21 $4 \times 9 =$

22 $9 \times 3 =$

23 $6 \times 3 =$

24 $4 \times 8 =$

25 $6 \times 2 =$

26 $2 \times 4 =$

27 $4 \times 4 =$

28 $9 \times 9 =$

29 $7 \times 3 =$

30 $6 \times 5 =$

MOST CIRCLES LAND ON 6s, 7s, AND 8s. THAT'S NORMAL – THAT'S THE HARD MIDDLE, AND PAGE 5 IS BUILT FOR IT.

Sixes, sevens, and eights. Nothing else.

The strategies: $\times 8$ is double-double-double. $\times 6$ is $\times 5$ plus one more group. 7s have no trick – they borrow from their partner (7×8 is 8×7). Division included, because families travel together.

01 $6 \times 4 = \square$

02 $7 \times 6 = \square$

03 $6 \times 9 = \square$

04 $8 \times 8 = \square$

05 $56 \div 8 = \square$

06 $21 \div 7 = \square$

07 $42 \div 6 = \square$

08 $35 \div 7 = \square$

09 $8 \times 5 = \square$

10 $48 \div 6 = \square$

11 $7 \times 3 = \square$

12 $49 \div 7 = \square$

13 $6 \times 7 = \square$

14 $8 \times 3 = \square$

15 $7 \times 8 = \square$

16 $8 \times 4 = \square$

17 $7 \times 7 = \square$

18 $6 \times 3 = \square$

19 $24 \div 6 = \square$

20 $8 \times 6 = \square$

21 $18 \div 6 = \square$

22 $7 \times 5 = \square$

23 $6 \times 8 = \square$

24 $7 \times 4 = \square$

MASTER THIS PAGE AND THE ENTIRE MULTIPLICATION TABLE IS YOURS. IT REALLY IS THAT CONCENTRATED.

Ten weeks, one small win at a time

Each week: write the 3–5 facts you're hunting, shade a box per day practiced. Streaks motivate.

		M	T	W	T	F	S	S
WK 01								
WK 02								
WK 03								
WK 04								
WK 05								
WK 06								
WK 07								
WK 08								
WK 09								
WK 10								

ANSWER KEYS • EVERY ONE MACHINE-VERIFIED

PAGE 2 • ADDITION DIAGNOSTIC

01)10 02)12 03)15 04)18 05)10 06)11 07)9 08)13 09)12 10)15 11)14 12)14 13)12 14)10
15)8 16)13 17)16 18)14 19)5 20)12 21)12 22)7 23)17 24)13 25)9 26)10 27)7 28)13 29)11
30)9

PAGE 3 • STRATEGY DRILL

01)13 02)10 03)13 04)11 05)8 06)9 07)14 08)17 09)11 10)15 11)16 12)17 13)6 14)10 15)12
16)14 17)14 18)11 19)13 20)17 21)16 22)12 23)13 24)13

PAGE 4 • MULTIPLICATION DIAGNOSTIC

01)49 02)27 03)12 04)16 05)24 06)24 07)72 08)40 09)25 10)63 11)56 12)20 13)54 14)32
15)72 16)48 17)36 18)35 19)64 20)56 21)36 22)27 23)18 24)32 25)12 26)8 27)16 28)81
29)21 30)30

PAGE 5 • THE HARD MIDDLE

01)24 02)42 03)54 04)64 05)7 06)3 07)7 08)5 09)40 10)8 11)21 12)7 13)42 14)24 15)56
16)32 17)49 18)18 19)4 20)48 21)3 22)35 23)48 24)28

108/108 ANSWERS COMPUTED & MACHINE-VERIFIED • 0 ERRORS