

Answers

1 • Split Trick

A $14 \times 6 = 60 + 24 = 84$
 $16 \times 7 = 70 + 42 = 112$
 $18 \times 4 = 40 + 32 = 72$
 $13 \times 9 = 90 + 27 = 117$
 B $15 \times 6 = 90$ | $12 \times 8 = 96$ | $17 \times 3 = 51$ |
 $11 \times 9 = 99$ | $19 \times 5 = 95$ | $14 \times 4 = 56$ |
 $16 \times 6 = 96$ | $13 \times 7 = 91$

Typical mistake: $17 \times 6 = 10 \times 6 + 7 = 67$. The ones must be multiplied by 6 too: $7 \times 6 = 42$.

2 • Double & Neighbor

A $7 \times 9 = 63 \rightarrow 126$ | $8 \times 8 = 64 \rightarrow 128$ |
 $9 \times 6 = 54 \rightarrow 108$ | $6 \times 7 = 42 \rightarrow 84$
 B $120 - 6 = 114$ | $160 - 8 = 152$ |
 $180 - 18 = 162$ | $80 - 4 = 76$
 C $18 \times 8 = 144$ | $19 \times 9 = 171$ |
 $15 \times 8 = 120$ | $12 \times 9 = 108$ |
 $16 \times 9 = 144$ | $14 \times 8 = 112$ |
 $20 \times 7 = 140$ | $17 \times 8 = 136$

With 18, take away two groups: $18 \times 9 = 180 - 18$, not $180 - 9$.

3 • Divide & Gaps

A $17 \times 6 = 102$, $6 \times 17 = 102$, $102 \div 6 = 17$,
 $102 \div 17 = 6$
 $13 \times 8 = 104$, $8 \times 13 = 104$, $104 \div 8 = 13$,
 $104 \div 13 = 8$
 B $84 \div 12 = 7$ | $126 \div 14 = 9$ |
 $135 \div 15 = 9$ | $152 \div 19 = 8$ | $96 \div 16 = 6$ |
 $117 \div 13 = 9$ | $190 \div 10 = 19$ | $34 \div 2 = 17$
 C $13 \times 6 = 78$ | $17 \times 9 = 153$ |
 $20 \times 8 = 160$ | $18 \times 8 = 144$ |
 $19 \times 7 = 133$ | $16 \times 2 = 32$
 D 17, 34, 51, 68, 85, 102
 19, 38, 57, 76, 95, 114
 160, 144, 128, 112, 96, 80

4 • Pro Warehouse

A $13 \times 15 = 130 + 65 = 195$
 $12 \times 17 = 120 + 84 = 204$
 $16 \times 14 = 160 + 64 = 224$
 $18 \times 12 = 180 + 36 = 216$
 B 13: 78, 104, 156, 182
 17: 102, 136, 204, 238
 19: 114, 152, 228, 266

4 • Word problems

1: $16 \times 9 = 144$. That is 144 parcels.
 2: $12 \times 15 = 180$, $180 - 17 = 163$. 163 parcels are still on the pallet.

5 • Lightning round

$17 \times 4 = 68$ | $98 \div 7 = 14$ | $13 \times 10 = 130$ |
 $18 \times 5 = 90$ | $20 \times 6 = 120$ | $171 \div 9 = 19$ |
 $17 \times 7 = 119$ | $16 \times 2 = 32$ | $19 \times 7 = 133$ |
 $64 \div 4 = 16$ | $18 \times 7 = 126$ | $11 \times 1 = 11$

5 • Error detective

$17 \times 8 = 126$: wrong, correct: 136
 $19 \times 6 = 114$: right
 $15 \times 9 = 125$: wrong, correct: 135
 $16 \times 7 = 112$: right
 $14 \times 13 = 172$: wrong, correct: 182

5 • Word problem

$126 \div 14 = 9$. Each shelf gets 9 parcels.

For grown-ups: what helps most

- 10 minutes every day beats one hour once. The 10-problem trainer test shows the progress.
- When there is a mistake, have the child explain the trick out loud ("10 times 6 is 60, 7 times 6 is 42 ..."), not just correct the answer.
- The basis is the basic multiplication facts up to 10×10 . If those wobble, review them first.