

Grade 4 - Multistep Word Problems - Answer Key

Common Core 4.OA.A.3 · maths-pdf.fr/en/

Use this answer key to check each multistep problem. Every solution shows the steps in order, with an equation or an estimate where it helps. The final answer, with units, is in bold.

Grade 4 · Common Core State Standards: **4.OA.A.3**

Exercise 1 - Packs of stickers

Stickers in the packs: $3 \times 8 = 24$.

Total: $s = 15 + 24 = 39$.

$s = 15 + 3 \times 8 = 39$ **stickers**

Exercise 2 - Pages read

First 5 days: $5 \times 24 = 120$.

All 6 days: $120 + 18 = 138$.

138 pages

Exercise 3 - Money left

Money	\$6	\$6	\$6	\$6	\$26
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Four \$6 notebooks leave \$26.

Cost of notebooks: $4 \times 6 = 24$ dollars.

Money left: $50 - 24 = 26$.

\$26.00

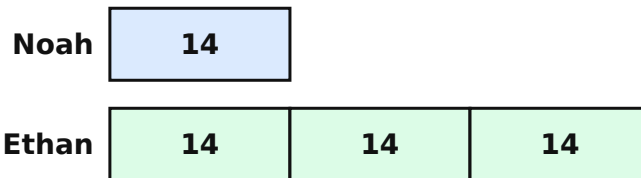
Exercise 4 - Sold bags of apples

Apples in one bag: $36 \div 4 = 9$.

Apples sold: $3 \times 9 = 27$.

27 apples

Exercise 5 - Card collection



Four bars of 14 make 56.

Ethan: $3 \times 14 = 42$.

Total: $14 + 42 = 56$.

56 cards

Exercise 6 - Balloons

Balloons in packs: $6 \times 12 = 72$.

Total: $6 = 72 + 7 = 79$.

$6 = 6 \times 12 + 7 = 79$ **balloons**

Exercise 7 - Ticket prices

Adults: $3 \times 12 = 36$. Children: $5 \times 7 = 35$.

Total: $36 + 35 = 71$.

\$71.00

Exercise 8 - Cupcake boxes

Boxes: $144 \div 6 = 24$.

Boxes left: $24 - 9 = 15$.

15 boxes

Exercise 9 - Canoes

$75 \div 4 = 18$ R 3 because $4 \times 18 = 72$.

Three students still need a seat, so round up.

19 canoes

Exercise 10 - Ribbon bows

$100 \div 8 = 12$ R 4 because $8 \times 12 = 96$.

The 4 leftover inches are too short for another piece, so drop the remainder.

12 pieces

Exercise 11 - Leftover cards

$53 \div 6 = 8$ R 5 because $6 \times 8 = 48$ and $53 - 48 = 5$.

The question asks about the leftover cards, so the remainder is the answer.

5 cards

Exercise 12 - Estimate and solve

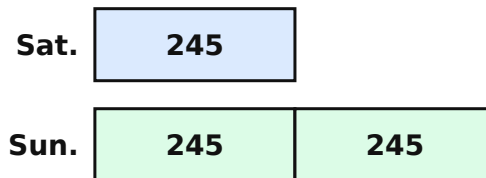
Estimate: $4 \times 20 + 50 = 130$.

Exact: $4 \times 19 = 76$, then $76 + 52 = 128$.

The exact total is close to the estimate, so it is reasonable.

about \$130.00 ; **exactly** \$128.00

Exercise 13 - Farmers market apples



Three bars of 245 make 735 pounds.

Sunday: $2 \times 245 = 490$.

Both days: $245 + 490 = 735$ pounds.

Bags: $735 \div 5 = 147$.

Check: $147 \times 5 = 735$.

147 bags

Exercise 14 - School store pencils

Pencils in packs: $8 \times 12 = 96$.

Pencils sold: $3 \times 25 = 75$.

Left: $96 - 75 = 21$.

21 pencils

Exercise 15 - Team uniforms

Shirts: $8 \times 14 = 112$. Hats: $8 \times 9 = 72$.

Total: $112 + 72 = 184$.

Change: $200 - 184 = 16$.

\$16.00

Exercise 16 - Empty seats

Large sections: $3 \times 1,250 = 3,750$.

All seats: $3,750 + 875 = 4,625$.

Empty seats: $4,625 - 3,980 = 645$.

645 seats

Exercise 17 - Road trip plan

Trip	360	225	225	225	225
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$$360 + 4 \times 225 = 1,260.$$

Miles left after day 1: $1,260 - 360 = 900$.

Miles each day: $900 \div 4 = 225$.

Check: $4 \times 225 + 360 = 900 + 360 = 1,260$.

225 miles

Exercise 18 - Cookie bake sale

Bags: $144 \div 8 = 18$.

Money: $18 \times 3 = 54$.

\$54.00

Exercise 19 - Field trip vans

People: $138 + 5 = 143$.

$143 \div 9 = 15$ R 8 because $9 \times 15 = 135$.

Eight people still need a seat, so round up.

16 vans

Exercise 20 - Is it reasonable?

Estimate: about $2,450 + 3 \times 130 - 300$, which is about 2,550. Noah's 7,459 is far too large.

Noah added 128 to 2,450 first and then multiplied by 3. The box books should be multiplied first: $3 \times 128 = 384$.

$2,450 + 384 = 2,834$ and $2,834 - 275 = 2,559$.

2,559 **books**