

Grade 4 Word Problems Workbook

5 lessons · printable · answer key at the back

Name _____

Date _____

Contents

Chapter 1 · Word problems	
1-1 Word Problems: Multiplication	1
1-2 Word Problems: Division	3
1-3 Word Problems: Fractions	5
1-4 Word Problems: Two Steps	7
1-5 Word Problems: Mixed	9

Word Problems: Multiplication

WORKED EXAMPLE

Dev filled 8 trays with 3 cupcakes in each.

How many cupcakes does Dev have in all?

ANSWER: $8 \times 3 = 24$ cupcakes

1. Word problems

Read each problem. Write the answer.

- 1 Lucia filled 5 boxes with 7 croissants in each.

How many croissants does Lucia have in all?

- 2 Elena filled 4 shelves with 5 folders in each. Besides those, Elena has 7 books.

How many folders does Elena have in all?

- 3 Ana has 2 tickets, and Noah has 5 times as many.

How many tickets does Noah have?

- 4 Elena filled 5 crates with 5 books in each. Elena also has 6 tickets.

How many books does Elena have in all?

- 5 Dev filled 4 trays with 2 cupcakes in each.

How many cupcakes does Dev have in all?

- 6 Jordan filled 4 boxes with 12 notebooks in each.

How many notebooks does Jordan have in all?

- 7 Priya filled 3 shelves with 6 folders in each.

How many folders does Priya have in all?

- 8 Kwame filled 2 boxes with 4 cupcakes in each.

How many cupcakes does Kwame have in all?

Word Problems: Division

WORKED EXAMPLE

Dev shared 35 bread rolls equally among 5 boxes.

How many bread rolls went in each box?

ANSWER: **$35 \div 5 = 7$ bread rolls**

2. Word problems

Read each problem. Write the answer.

- 1 Ana packed 30 notebooks into shelves of 10.

How many shelves did Ana fill?

- 2 Maya shared 32 folders equally among 4 shelves.

How many folders went in each shelf?

- 3 Lucia packed 40 cookies into trays of 8.

How many trays did Lucia fill?

- 4 Priya shared 25 folders equally among 5 crates.

How many folders went in each crate?

- 5 Farah has 35 carrots, which is 7 times as many as Ravi has.

How many carrots does Ravi have?

- 6 Omar packed 14 cookies into trays of 7. Besides those, Omar has 6 bread rolls.

How many trays did Omar fill?

- 7 Dev shared 108 cookies equally among 9 trays. Besides those, Dev has 7 croissants.

How many cookies went in each tray?

- 8 Kwame packed 48 cupcakes into trays of 12. Kwame also keeps 2 croissants.

How many trays did Kwame fill?

Word Problems: Fractions

WORKED EXAMPLE

Maya had $\frac{2}{4}$ kilogram of rice and used $\frac{1}{4}$ kilogram.

How much is left?

ANSWER: $\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$ kilogram

3. Word problems

Read each problem. Write the answer.

- 1 Suki's recipe needs $\frac{5}{6}$ cup of juice, and then $\frac{1}{6}$ cup more.

How much juice does Suki need in all?

- 2 Dana used $\frac{3}{6}$ kilogram of hay and Ravi used $\frac{2}{6}$ kilogram.

How much did they use altogether?

- 3 Rosa's recipe needs $\frac{5}{6}$ cup of juice, and then $\frac{4}{6}$ cup more.

How much juice does Rosa need in all?

- 4 Suki used $\frac{2}{3}$ liter of milk and Ravi used $\frac{1}{3}$ liter.

How much did they use altogether?

- 5 Marian's recipe needs $\frac{5}{6}$ liter of water, and then $\frac{4}{6}$ liter more.

How much water does Marian need in all?

- 6 Lucia's recipe needs $\frac{4}{6}$ kilogram of rice, and then $\frac{1}{6}$ kilogram more.

How much rice does Lucia need in all?

- 7 Milo's recipe needs $\frac{2}{4}$ cup of flour, and then $\frac{1}{4}$ cup more.

How much flour does Milo need in all?

- 8 Dana had $\frac{2}{3}$ liter of water and used $\frac{1}{3}$ liter.

How much is left?

Word Problems: Two Steps

WORKED EXAMPLE

Lucia sets out 24 scones. When a classmate hands over 8, Lucia donates 16 to a school fair.

How many scones does Lucia have now?

ANSWER: $24 + 8 = 32$, then $32 - 16 = 16$ scones

4. Word problems

Read each problem. Write the answer.

- 1 Dev has a box of 25 scones. An aunt sends 4, and soon after Dev donates 14 to the club.

How many scones does Dev have now?

- 2 Noah has 59 badges. A neighbor drops off 26. Then Noah gives 40 to a friend.

(a) **How many badges did Noah have in total?**

(b) **How many badges does Noah have now?**

- 3 Ana has 31 posters. A cousin hands over 22. Then Ana donates 5 to the club.

(a) **How many posters did Ana have in total?**

(b) **How many posters does Ana have now?**

- 4 Jordan already had 19 buttons, and a friend brings 4 more. In the end, Jordan hands 9 to a cousin.

How many buttons does Jordan have now?

4. Word problems (continued)

Read each problem. Write the answer.

- 5 Priya has 31 erasers. A friend brings 26. Then Priya gives 21 away.

(a) **How many erasers did Priya have in total?**

(b) **How many erasers does Priya have now?**

- 6 Dev has 36 biscuits. A friend brings 24. Then Dev gives 3 away.

(a) **How many biscuits did Dev have in total?**

(b) **How many biscuits does Dev have now?**

- 7 Elena sets out 20 pebbles. When a classmate hands over 16, Elena donates 5 to a school fair.

How many pebbles does Elena have now?

- 8 Suki counts 54 strawberries at home. A neighbor drops off 20; next, Suki gives 34 to a younger sibling.

How many strawberries does Suki have now?

Word Problems: Mixed

WORKED EXAMPLE

Lucia started with 47 cookies and sold 33.

How many cookies does Lucia have left?

ANSWER: **$47 - 33 = 14$ cookies**

5. Word problems

Read each problem. Write the answer.

- 1 Jordan filled 9 boxes with 12 tickets in each.

How many tickets does Jordan have in all?

- 2 Rosa shared 12 cookies equally among 6 boxes.

How many cookies went in each box?

- 3 Marian has 40 croissants, 33 fewer than Dev.

How many croissants does Dev have?

- 4 Courtney had 38 treats. After using up some, Courtney had 25 treats left.

How many treats did Courtney use up?

- 5 Rosa has baked 17 cookies, and Marian has 8 more than Rosa.

How many cookies does Marian have?

- 6 Jordan had 21 tickets. After returning some, Jordan had 9 tickets left. Jordan also has 6 books.

How many tickets did Jordan return?

- 7 Lucia has 36 bread rolls, 11 fewer than Dev. Dev also keeps 4 cupcakes.

How many bread rolls does Dev have?

- 8 Ravi had 60 carrots and 2 water bottles before buying 52 more carrots at the run.

How many carrots does Ravi have now?

Answer Key

Word Problems: Multiplication

Word problems

1. $5 \times 7 = 35$ croissants
2. $4 \times 5 = 20$ folders
3. $5 \times 2 = 10$ tickets
4. $5 \times 5 = 25$ books
5. $4 \times 2 = 8$ cupcakes
6. $4 \times 12 = 48$ notebooks
7. $3 \times 6 = 18$ folders
8. $2 \times 4 = 8$ cupcakes

Word Problems: Division

Word problems

1. $30 \div 10 = 3$ shelves
2. $32 \div 4 = 8$ folders
3. $40 \div 8 = 5$ trays
4. $25 \div 5 = 5$ folders
5. $35 \div 7 = 5$ carrots
6. $14 \div 7 = 2$ trays
7. $108 \div 9 = 12$ cookies
8. $48 \div 12 = 4$ trays

Word Problems: Fractions

Word problems

1. $5/6 + 1/6 = 1$ cup
2. $3/6 + 2/6 = 5/6$ kilogram
3. $5/6 + 4/6 = 1 \frac{1}{2}$ cups
4. $2/3 + 1/3 = 1$ liter
5. $5/6 + 4/6 = 1 \frac{1}{2}$ liters
6. $4/6 + 1/6 = 5/6$ kilogram
7. $2/4 + 1/4 = 3/4$ cup
8. $2/3 - 1/3 = 1/3$ liter

Word Problems: Two Steps

Word problems

1. $25 + 4 = 29$, then $29 - 14 = 15$ scones
2. $59 + 26 = 85$ badges; $85 - 40 = 45$ badges
3. $31 + 22 = 53$ posters; $53 - 5 = 48$ posters
4. $19 + 4 = 23$, then $23 - 9 = 14$ buttons
5. $31 + 26 = 57$ erasers; $57 - 21 = 36$ erasers
6. $36 + 24 = 60$ biscuits; $60 - 3 = 57$ biscuits
7. $20 + 16 = 36$, then $36 - 5 = 31$ pebbles
8. $54 + 20 = 74$, then $74 - 34 = 40$ strawberries

Word Problems: Mixed

Word problems

1. $9 \times 12 = 108$ tickets
2. $12 \div 6 = 2$ cookies
3. $40 + 33 = 73$ croissants
4. $38 - 25 = 13$ treats
5. $17 + 8 = 25$ cookies
6. $21 - 9 = 12$ tickets
7. $36 + 11 = 47$ bread rolls
8. $60 + 52 = 112$ carrots

Solutions (1 of 2)

Word Problems: Multiplication

Word problems

1. Lucia filled 5 boxes with 7 croissants in each.

How many croissants does Lucia have in all? ____

asked:

How many croissants does Lucia have in all?

$$5 \times 7 = 35$$

35 croissants

Read it through once and do NOTHING. Grabbing the numbers on the first read means choosing an operation before you know the story, and that choice is the only hard part of a word problem.

Now the numbers: 5 and 7. Finding them is not the same as knowing what to do with them — that comes next, and it comes from the story rather than from the numbers.

Equal groups, and you are told how many groups and how big each one is — that is a multiplication, and adding the two numbers is the mistake the story is set up to catch. So this one is a multiplication: 5×7 .

$5 \times 7 = 35$ croissants. And answer the question that was ASKED — "How many croissants does Lucia have in all?" — in croissants, because the sum on its own is not yet an answer.

Solutions (2 of 2)

Word Problems: Multiplication (continued)

Word problems (continued)

2. Elena filled 4 shelves with 5 folders in each. Besides those, Elena has 7 books.

How many folders does Elena have in all? ____

asked:

How many folders does Elena have in all?

$$4 \times 5 = 20$$

20 folders

Read it through once and do NOTHING. Grabbing the numbers on the first read means choosing an operation before you know the story, and that choice is the only hard part of a word problem.

Now the numbers: 4 and 5. Finding them is not the same as knowing what to do with them — that comes next, and it comes from the story rather than from the numbers.

Equal groups, and you are told how many groups and how big each one is — that is a multiplication, and adding the two numbers is the mistake the story is set up to catch. So this one is a multiplication: 4×5 .

$4 \times 5 = 20$ folders. And answer the question that was ASKED — "How many folders does Elena have in all?" — in folders, because the sum on its own is not yet an answer.