

Grade 3 Word Problems Workbook

4 lessons · printable · answer key at the back

Name _____

Date _____

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Word Problems: Multiplication

WORKED EXAMPLE

Ravi filled 3 hutches with 2 food pellets in each.

How many food pellets does Ravi have in all?

ANSWER: $3 \times 2 = 6$ food pellets

1. Word problems

Read each problem. Write the answer.

- 1 Dev filled 2 boxes with 4 cupcakes in each. Dev also has 6 bread rolls.

How many cupcakes does Dev have in all?

- 2 Priya filled 2 boxes with 7 notebooks in each.

How many notebooks does Priya have in all?

- 3 Farah filled 5 feed bags with 5 water bottles in each. Farah also keeps 4 carrots.

How many water bottles does Farah have in all?

- 4 Marian filled 2 trays with 7 cookies in each. Marian also keeps 5 cupcakes.

How many cookies does Marian have in all?

- 5 Suki filled 2 hutches with 7 carrots in each.

How many carrots does Suki have in all?

- 6 Maya filled 4 boxes with 4 tickets in each.

How many tickets does Maya have in all?

- 7 Elena filled 3 crates with 4 tickets in each. Elena also keeps 6 folders.

How many tickets does Elena have in all?

- 8 Ana filled 5 shelves with 2 books in each.

How many books does Ana have in all?

Word Problems: Division

WORKED EXAMPLE

Farah shared 18 treats equally among 6 feed bags.

How many treats went in each feed bag?

ANSWER: **$18 \div 6 = 3$ treats**

2. Word problems

Read each problem. Write the answer.

- 1 Lucia shared 15 cookies equally among 5 boxes. Lucia also keeps 6 cupcakes.

How many cookies went in each box?

- 2 Maya packed 20 books into crates of 4.

How many crates did Maya fill?

- 3 Ravi shared 24 carrots equally among 6 feed bags.

How many carrots went in each feed bag?

- 4 Priya packed 24 notebooks into crates of 6.

How many crates did Priya fill?

- 5 Suki shared 18 treats equally between 2 hutches.

How many treats went in each hutch?

- 6 Courtney packed 35 food pellets into hutches of 7.

How many hutches did Courtney fill?

- 7 Courtney packed 16 food pellets into hutches of 8.

How many hutches did Courtney fill?

- 8 Milo packed 18 food pellets into feed bags of 9.

How many feed bags did Milo fill?

Word Problems: Two Steps

WORKED EXAMPLE

Milo has 15 glue sticks. A neighbor drops off 2. Then Milo gives 6 to a friend.

(a) How many glue sticks did Milo have in total?

ANSWER: $15 + 2 = 17$ glue sticks

(b) How many glue sticks does Milo have now?

ANSWER: $17 - 6 = 11$ glue sticks

3. Word problems

Read each problem. Write the answer.

- 1 Rosa has 15 cupcakes. A cousin hands over 15. Then Rosa donates 13 to the club.

(a) How many cupcakes did Rosa have in total?

(b) How many cupcakes does Rosa have now?

- 2 Dev already had 29 scones, and a friend brings 16 more. In the end, Dev hands 22 to a cousin.

How many scones does Dev have now?

- 3 Rosa has 10 biscuits. A neighbor drops off 16. Then Rosa gives 12 to a friend.

(a) How many biscuits did Rosa have in total?

(b) How many biscuits does Rosa have now?

- 4 Ravi sets out 28 potatoes. When a classmate hands over 18, Ravi donates 2 to a school fair.

How many potatoes does Ravi have now?

3. Word problems (continued)

Read each problem. Write the answer.

- 5 Milo starts the week with 39 tomatoes. A friend brings 4, and later Milo gives 13 away.

How many tomatoes does Milo have now?

- 6 Ravi has 17 notebooks. A neighbor drops off 8. Then Ravi gives 4 to a friend.

(a) **How many notebooks did Ravi have in total?**

(b) **How many notebooks does Ravi have now?**

- 7 Priya has 32 badges. A neighbor drops off 9. Then Priya gives 3 to a friend.

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

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

- 8 Dev sets out 34 biscuits. When a classmate hands over 12, Dev donates 23 to a school fair.

How many biscuits does Dev have now?

Word Problems: Mixed

WORKED EXAMPLE

Ravi filled 3 feed bags with 3 treats in each.

How many treats does Ravi have in all?

ANSWER: $3 \times 3 = 9$ treats

4. Word problems

Read each problem. Write the answer.

- 1 Suki counted 16 water bottles at first. In the end, Suki kept 7 water bottles.

How many water bottles did Suki use up?

- 2 Maya and Jordan have some folders — 19 belong to Maya and 11 to Jordan.

How many folders do the two of them have in total?

- 3 Marian had 32 cupcakes and baked some more, ending with 53 cupcakes.

How many cupcakes did Marian bake?

- 4 Priya has 27 tickets and Maya has 18.

How many more tickets does Priya have than Maya?

- 5 Dev had 25 cookies, packed away some, and kept 5 cookies.

How many cookies did Dev pack away?

- 6 Noah packed 27 books into shelves of 9.

How many shelves did Noah fill?

- 7 Suki started with 30 food pellets but was left with just 10 food pellets.

How many food pellets did Suki use up?

- 8 Elena was given 23 folders and 2 notebooks near the sports field, then 20 more folders.

How many folders does Elena have now?

Answer Key

Word Problems: Multiplication

Word problems

1. $2 \times 4 = 8$ cupcakes
2. $2 \times 7 = 14$ notebooks
3. $5 \times 5 = 25$ water bottles
4. $2 \times 7 = 14$ cookies
5. $2 \times 7 = 14$ carrots
6. $4 \times 4 = 16$ tickets
7. $3 \times 4 = 12$ tickets
8. $5 \times 2 = 10$ books

Word Problems: Division

Word problems

1. $15 \div 5 = 3$ cookies
2. $20 \div 4 = 5$ crates
3. $24 \div 6 = 4$ carrots
4. $24 \div 6 = 4$ crates
5. $18 \div 2 = 9$ treats
6. $35 \div 7 = 5$ hutches
7. $16 \div 8 = 2$ hutches
8. $18 \div 9 = 2$ feed bags

Word Problems: Two Steps

Word problems

1. $15 + 15 = 30$ cupcakes; $30 - 13 = 17$ cupcakes
2. $29 + 16 = 45$, then $45 - 22 = 23$ scones
3. $10 + 16 = 26$ biscuits; $26 - 12 = 14$ biscuits
4. $28 + 18 = 46$, then $46 - 2 = 44$ potatoes
5. $39 + 4 = 43$, then $43 - 13 = 30$ tomatoes
6. $17 + 8 = 25$ notebooks; $25 - 4 = 21$ notebooks
7. $32 + 9 = 41$ badges; $41 - 3 = 38$ badges
8. $34 + 12 = 46$, then $46 - 23 = 23$ biscuits

Word Problems: Mixed

Word problems

1. $16 - 7 = 9$ water bottles
2. $19 + 11 = 30$ folders
3. $53 - 32 = 21$ cupcakes
4. $27 - 18 = 9$ tickets
5. $25 - 5 = 20$ cookies
6. $27 \div 9 = 3$ shelves
7. $30 - 10 = 20$ food pellets
8. $23 + 20 = 43$ folders

Solutions (1 of 2)

Word Problems: Multiplication

Word problems

1. Dev filled 2 boxes with 4 cupcakes in each. Dev also has 6 bread rolls.

How many cupcakes does Dev have in all? ____

asked:

How many cupcakes does Dev have in all?

$$2 \times 4 = 8$$

8 cupcakes

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: 2 and 4. 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: 2×4 .

$2 \times 4 = 8$ cupcakes. And answer the question that was ASKED — "How many cupcakes does Dev have in all?" — in cupcakes, because the sum on its own is not yet an answer.

Solutions (2 of 2)

Word Problems: Multiplication (continued)

Word problems (continued)

2. Priya filled 2 boxes with 7 notebooks in each.

How many notebooks does Priya have in all? ____

asked:

How many notebooks does Priya have in all?

$$2 \times 7 = 14$$

14 notebooks

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: 2 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: 2×7 .

$2 \times 7 = 14$ notebooks. And answer the question that was ASKED — "How many notebooks does Priya have in all?" — in notebooks, because the sum on its own is not yet an answer.