

Grade 5 Word Problems Workbook

5 lessons · printable · answer key at the back

Name _____ Date _____

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Word Problems: Fractions

WORKED EXAMPLE

Priya used $\frac{4}{6}$ meter of string and Maya used $\frac{2}{6}$ meter.

How much did they use altogether?

ANSWER: $\frac{4}{6} + \frac{2}{6} = 1$ meter

1. Word problems

Read each problem. Write the answer.

- 1 Jordan's recipe needs $\frac{4}{10}$ kilogram of rice, and then $\frac{3}{10}$ kilogram more.

How much rice does Jordan need in all?

- 2 Lucia used $\frac{4}{8}$ cup of milk and Kwame used $\frac{1}{8}$ cup.

How much did they use altogether?

- 3 Ravi used $\frac{10}{12}$ kilogram of hay and Suki used $\frac{9}{12}$ kilogram.

How much more did Ravi use than Suki?

- 4 Elena had $\frac{3}{4}$ kilogram of rice and used $\frac{2}{4}$ kilogram.

How much is left?

- 5 Ravi used $\frac{8}{10}$ kilogram of hay and Dana used $\frac{1}{10}$ kilogram.

How much did they use altogether?

- 6 Ravi used $\frac{7}{12}$ cup of birdseed and Milo used $\frac{5}{12}$ cup.

How much more did Ravi use than Milo?

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

How much is left?

- 8 Dev's recipe needs $\frac{3}{8}$ cup of flour, and then $\frac{1}{8}$ cup more.

How much flour does Dev need in all?

Word Problems: Decimals

WORKED EXAMPLE

Milo bought a leash for \$10.03 and a hamster wheel for \$7.96.

How much did Milo spend in all?

ANSWER: $\$10.03 + \$7.96 = \$17.99$

2. Word problems

Read each problem. Write the answer.

- 1 Noah bought a pencil for \$1.16 and a water bottle for \$11.51.

How much did Noah spend in all?

- 2 A hamster wheel costs \$9.55 and a pet brush costs \$11.70.

How much more is the pet brush than the hamster wheel?

- 3 Dana had \$40.19 and spent \$9.45 on a pet brush.

How much money does Dana have left?

- 4 Rosa bought a birthday cake for \$15.81 and a fruit pie for \$8.18.

How much did Rosa spend in all?

- 5 Priya was given \$8.09 and now has \$41.48.

How much money did Priya have before?

- 6 Priya bought a pencil for \$0.93 and a pencil case for \$4.04.

How much did Priya spend in all?

- 7 An eraser costs \$1.53 at one store and \$0.91 at another. Noah compared the two prices.

How much cheaper is the second store?

- 8 Milo had \$31.00 and spent \$6.29 on a collar.

How much money does Milo have left?

Word Problems: Equations

WORKED EXAMPLE

Farah now has 42 food pellets after bringing 10 more. Farah also keeps 4 treats.

Write an equation using x for the unknown, then solve it.

ANSWER: $x + 10 = 42$, so $x = 32$

3. Word problems

Read each problem. Write the answer.

- 1 Marian has 54 cookies, which is 6 times as many as Lucia has.

Write an equation using x for the unknown, then solve it.

- 2 After baking 37 cupcakes, Lucia now has 79 cupcakes altogether. Lucia also keeps 8 croissants.

Write an equation using x for the unknown, then solve it.

- 3 Dana packed 60 food pellets into feed bags of 12. Besides those, Dana has 8 treats.

Write an equation using x for the unknown, then solve it.

- 4 Priya has 37 notebooks left after selling 36.

Write an equation using x for the unknown, then solve it.

- 5 Elena returned 12 notebooks and has 9 notebooks left.

Write an equation using x for the unknown, then solve it.

- 6 After packing away 21 croissants, Dev has 44 croissants left.

Write an equation using x for the unknown, then solve it.

- 7 Priya is keeping 51 books, which is 17 more than Elena has.

Write an equation using x for the unknown, then solve it.

- 8 Ravi has 130 carrots, which is 45 more than Courtney has. Besides those, Ravi has 5 water bottles.

Write an equation using x for the unknown, then solve it.

Word Problems: Two Steps

WORKED EXAMPLE

Noah has 83 stamps. A neighbor drops off 11. Then Noah gives 37 to a friend.

(a) How many stamps did Noah have in total?

ANSWER: $83 + 11 = 94$ stamps

(b) How many stamps does Noah have now?

ANSWER: $94 - 37 = 57$ stamps

4. Word problems

Read each problem. Write the answer.

- 1 Milo keeps 53 folders. After a cousin hands over 34, Milo gives 20 to a friend.

How many folders does Milo have now?

- 2 Ravi loads 4 cases with 5 potatoes in each. Later an aunt sends over 5.

How many potatoes does Ravi have in all?

- 3 Omar fills 12 cartons with 4 bagels in each, before a cousin gives 7.

How many bagels does Omar have in all?

- 4 Milo has 77 folders. A cousin hands over 34, and afterwards Milo gives 48 away.

How many folders does Milo have now?

- 5 Rosa packs 8 baskets with 3 cookies in each. After that, Rosa donates 8 to the club.

How many cookies are left?

- 6 Courtney fills 5 crates with 10 markers in each, before a cousin gives 2.

How many markers does Courtney have in all?

- 7 Priya keeps 33 buttons. After a cousin hands over 23, Priya gives 9 to a friend.

How many buttons does Priya have now?

- 8 Farah fills 7 cartons with 4 notebooks in each. Next, a neighbor drops off 4.

How many notebooks does Farah have in all?

Word Problems: Mixed

WORKED EXAMPLE

Noah already had 94 notebooks as well as 4 books and was given 47 more notebooks.

How many notebooks does Noah have in all?

ANSWER: **$94 + 47 = 141$ notebooks**

5. Word problems

Read each problem. Write the answer.

- 1 Kwame had 79 bread rolls and was left with 61 bread rolls after selling some. Kwame also keeps 8 cupcakes.

How many bread rolls did Kwame sell?

- 2 Out of 86 croissants, Marian packed away 10.

How many croissants does Marian have left?

- 3 Starting with some carrots, Farah bought 61 more and now has 141 carrots.

How many carrots did Farah start with?

- 4 Marian and Omar have some croissants — 97 belong to Marian and 15 to Omar.

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

- 5 Kwame has 32 cookies, which is 4 times as many as Omar has.

How many cookies does Omar have?

- 6 Maya packed 108 tickets into crates of 9. Maya also keeps 4 folders.

How many crates did Maya fill?

- 7 Dana has 99 water bottles, and Suki has 60 more than Dana. Besides those, Suki has 5 food pellets.

How many water bottles does Suki have?

- 8 Ravi has 49 treats, but Suki has 58.

How many more treats does Suki have than Ravi?

Answer Key

Word Problems: Fractions

Word problems

1. $4/10 + 3/10 = 7/10$ kilogram
2. $4/8 + 1/8 = 5/8$ cup
3. $10/12 - 9/12 = 1/12$ kilogram
4. $3/4 - 2/4 = 1/4$ kilogram
5. $8/10 + 1/10 = 9/10$ kilogram
6. $7/12 - 5/12 = 1/6$ cup
7. $2/3 - 1/3 = 1/3$ liter
8. $3/8 + 1/8 = 1/2$ cup

Word Problems: Mixed

Word problems

1. $79 - 61 = 18$ bread rolls
2. $86 - 10 = 76$ croissants
3. $141 - 61 = 80$ carrots
4. $97 + 15 = 112$ croissants
5. $32 \div 4 = 8$ cookies
6. $108 \div 9 = 12$ crates
7. $99 + 60 = 159$ water bottles
8. $58 - 49 = 9$ treats

Word Problems: Decimals

Word problems

1. $\$1.16 + \$11.51 = \$12.67$
2. $\$11.70 - \$9.55 = \$2.15$
3. $\$40.19 - \$9.45 = \$30.74$
4. $\$15.81 + \$8.18 = \$23.99$
5. $\$41.48 - \$8.09 = \$33.39$
6. $\$0.93 + \$4.04 = \$4.97$
7. $\$1.53 - \$0.91 = \$0.62$
8. $\$31.00 - \$6.29 = \$24.71$

Word Problems: Equations

Word problems

1. $6x = 54$, so $x = 9$
2. $x + 37 = 79$, so $x = 42$
3. $12x = 60$, so $x = 5$
4. $x - 36 = 37$, so $x = 73$
5. $x - 12 = 9$, so $x = 21$
6. $x - 21 = 44$, so $x = 65$
7. $x + 17 = 51$, so $x = 34$
8. $x + 45 = 130$, so $x = 85$

Word Problems: Two Steps

Word problems

1. $53 + 34 = 87$, then $87 - 20 = 67$ folders
2. $4 \times 5 = 20$, then $20 + 5 = 25$ potatoes
3. $12 \times 4 = 48$, then $48 + 7 = 55$ bagels
4. $77 + 34 = 111$, then $111 - 48 = 63$ folders
5. $8 \times 3 = 24$, then $24 - 8 = 16$ cookies
6. $5 \times 10 = 50$, then $50 + 2 = 52$ markers
7. $33 + 23 = 56$, then $56 - 9 = 47$ buttons
8. $7 \times 4 = 28$, then $28 + 4 = 32$ notebooks

Solutions

Word Problems: Fractions

Word problems

1. Jordan's recipe needs $\frac{4}{10}$ kilogram of rice, and then $\frac{3}{10}$ kilogram more.

How much rice does Jordan need in all? ____

asked: How much rice does Jordan need in all?

$$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

$\frac{7}{10}$ kilogram

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: $\frac{4}{10}$ and $\frac{3}{10}$. 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.

Parts of the same whole, put together — the pieces are already the same size, so they simply count up. So this one is an addition: $\frac{4}{10} + \frac{3}{10}$.

$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ kilogram. And answer the question that was ASKED — "How much rice does Jordan need in all?" — in kilogram, because the sum on its own is not yet an answer.

2. Lucia used $\frac{4}{8}$ cup of milk and Kwame used $\frac{1}{8}$ cup.

How much did they use altogether? ____

asked: How much did they use altogether?

$$\frac{4}{8} + \frac{1}{8} = \frac{5}{8}$$

$\frac{5}{8}$ cup

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: $\frac{4}{8}$ and $\frac{1}{8}$. 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.

Amounts are joining together. So this one is an addition: $\frac{4}{8} + \frac{1}{8}$.

$\frac{4}{8} + \frac{1}{8} = \frac{5}{8}$ cup. And answer the question that was ASKED — "How much did they use altogether?" — in cup, because the sum on its own is not yet an answer.