Add and Subtract Decimals

Hundredths, Models and Strategies



Build with place value; explain and check

Original money and measurement stories

26 pages | 40 practice items | Complete worked keys

TOUCHSTONE STANDARDS

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TOUCHSTONE STANDARDS

Grade 5 Add and Subtract Decimals

Georgia's K-12 Mathematics Standards

5.NR.4.4

Solve problems involving addition and subtraction of decimal numbers to the hundredths place using a variety of strategies.

Common Core crosswalk: written to Georgia's standards, these pages also practice 5.NBT.B.7 (addition and subtraction to hundredths).

Page map: practice / key (all pages: 5.NR.4.4)

3 / 15	Add with Hundred Grids
4 / 16	Subtract with Hundred Grids
5 / 17	Add by Place Value
6 / 18	Subtract by Place Value
7 / 19	Flexible Decimal Strategies
8 / 20	Combine and Compare Amounts
9 / 21	Find and Fix the Mistake
10 / 22	Check with the Other Operation
11 / 23	Money and Measurement Stories
12 / 24	Missing and Remaining Amounts
13 / 25	Decimal Code
14 / 26	Mixed Review

Models and choice

Each hundred grid is one whole; each cell is 0.01. Slants mark A. Bars append B in sums; crosshatching removes B in differences. Use models, place value, compensation, counting up or another valid strategy. Relate the drawing or strategy to a written method and explain.

Places and checks

A/B label the displayed operands. Align decimal points; a trailing zero preserves value. Read the hundredths equations and check with the other operation. Page 5 has two fractional-regrouping sums and two without; page 6 has two fractional-regrouping differences and two without, including an exchange across zero.

Packet limits

Inputs stop at hundredths and 999.99; sums may reach 1,999.98. No negative results or decimal multiplication/division. Keys keep two decimal places; accept equivalent correct numerals. Stories are one operation each with space for reasoning. Page 13 spells CHANGE; extra T is 1.75.

Follow Touchstone Standards on TPT for new resources. After using the packet, an honest review helps us improve.

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Add with Hundred Grids

Name: _____

Combine the marked hundredths. Write the sum and explain; another valid strategy is welcome.

Strategy Spotlight

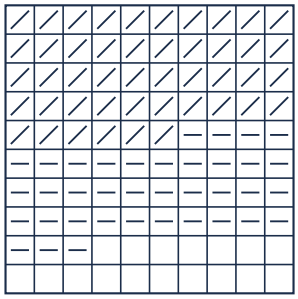
A: 0.62 + **B:** 0.29

62 + 29 = 91 hundredths.
Check: 0.91 − 0.62 = 0.29

Exact: **0.91**

1.

Each grid = 1 whole; cell = 0.01.



A: 0.46
\+ **B:** 0.37

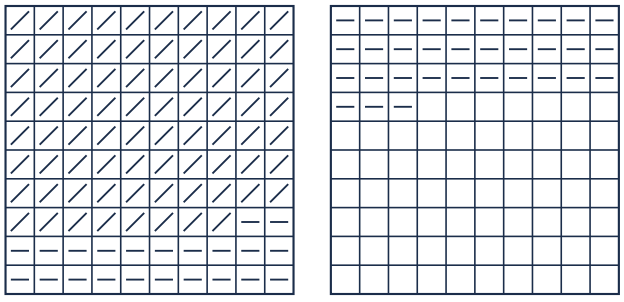
Answer: _____

Slants: A. Bars: B.
Count both patterns.

Explain and check:

2.

Each grid = 1 whole; cell = 0.01.



A: 0.78
\+ **B:** 0.55

Answer: _____

Slants: A. Bars: B.
Count both patterns.

Explain and check:

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Answer Key: Add with Hundred Grids

Student page 3

Combine the marked hundredths. Write the sum and explain; another valid strategy is welcome.

Strategy Spotlight

A: 0.62 + **B:** 0.29

62 + 29 = 91 hundredths.
Check: 0.91 − 0.62 = 0.29

Exact: **0.91**

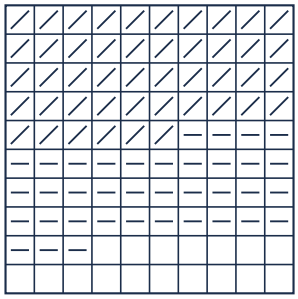
1.

A: 0.46
\+ **B:** 0.37

0.83

46 + 37 = 83 hundredths.
Check: 0.83 − 0.46 = 0.37

Each grid = 1 whole; cell = 0.01.



Slants: A. Bars: B.
Count both patterns.

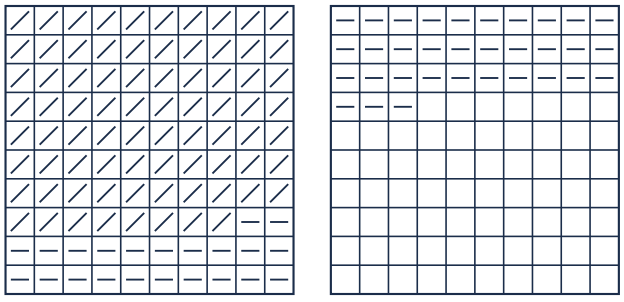
2.

A: 0.78
\+ **B:** 0.55

1.33

78 + 55 = 133 hundredths.
Check: 1.33 − 0.78 = 0.55

Each grid = 1 whole; cell = 0.01.



Slants: A. Bars: B.
Count both patterns.

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Combine and Compare Amounts

Name: _____

Model or solve each situation. Explain the amount found and label the units.

Strategy Spotlight

A: 8.54 − **B:** 2.17

854 − 217 = 637 hundredths.
Check: 6.37 + 2.17 = 8.54

Exact: **6.37**

17. An acoustic panel uses A meters of felt on its front and B meters on its back. How many meters of felt are needed?

A: 4.26 **B:** 3.58

Answer: _____ Label: _____

18. Two laser cuts are A centimeters and B centimeters long. How much longer is cut A than cut B?

A: 7.83 **B:** 5.46

Answer: _____ Label: _____

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Answer Key: Combine and Compare Amounts

Student page 8

Model or solve each situation. Explain the amount found and label the units.

Strategy Spotlight

A: 8.54 − **B:** 2.17

854 − 217 = 637 hundredths.
Check: 6.37 + 2.17 = 8.54

Exact: **6.37**

17. An acoustic panel uses A meters of felt on its front and B meters on its back. How many meters of felt are needed?

A: 4.26 **B:** 3.58

7.84 **meters**

426 + 358 = 784 hundredths.
Check: 7.84 − 4.26 = 3.58

Answer: _____ Label: _____

18. Two laser cuts are A centimeters and B centimeters long. How much longer is cut A than cut B?

A: 7.83 **B:** 5.46

2.37 **centimeters**

783 − 546 = 237 hundredths.
Check: 2.37 + 5.46 = 7.83

Answer: _____ Label: _____

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