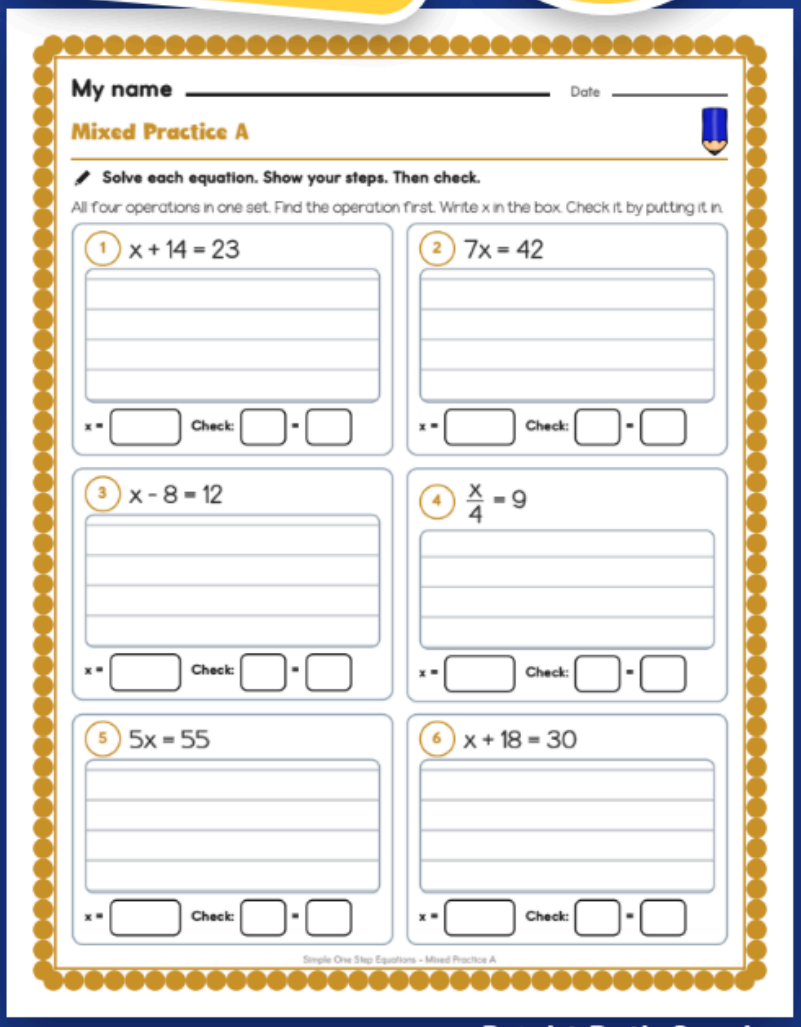
SIMPLE ONE STEP EQUATIONS

WORKSHEETS - GRADES 6-7

37 PAGES

ANSWER KEY


My name _____ Date _____

Mixed Practice A

Solve each equation. Show your steps. Then check.

All four operations in one set. Find the operation first. Write x in the box. Check it by putting it in.

1. $x + 14 = 23$ — x = ☐ Check: ☐ = ☐
2. $7x = 42$ — x = ☐ Check: ☐ = ☐
3. $x - 8 = 12$ — x = ☐ Check: ☐ = ☐
4. $\frac{x}{4} = 9$ — x = ☐ Check: ☐ = ☐
5. $5x = 55$ — x = ☐ Check: ☐ = ☐
6. $x + 18 = 30$ — x = ☐ Check: ☐ = ☐

Simple One Step Equations - Mixed Practice A

Bright Path Sped

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- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, every answer box, every ruled work box and every check box on the student pages are type-in fields, and so are the tracker, class grid, team note and family page. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every student page is black and white inside a colored border, so it still reads when copied in black and white.

Student work

A filled-in tracker, class grid or team note carries a real student's name. Keep it in the data folder.

Need help?

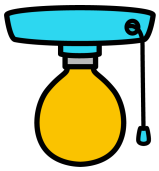
If a field will not behave or a page will not print right, use Ask a Question on the product page before leaving a review. A fix to the file is a free update from My Purchases.

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PREVIEW

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My name _____ Date _____



Solve It: 3 Steps

Read the steps. Keep this page next to you.

Every one-step equation takes the same three steps. The numbers are made up for practice.

1 Find the operation

Look at x. Is a number added, taken away, multiplied or divided?

Example: $x + 7 = 16$

2 Do the opposite on both sides

Add and subtract undo each other. Times and divide undo each other. Do it to BOTH sides.

Example: $x + 7 - 7 = 16 - 7$, so $x = 9$

3 Check

Put your answer in for x. Both sides must match.

Example: $9 + 7 = 16$. Both sides match.

PREVIEW

The four operations and their opposites

Addition

$x + 7 = 16$

Opposite: subtract

Subtraction

$x - 5 = 8$

Opposite: add

Multiplication

$4x = 24$

Opposite: divide

Division

$\frac{x}{3} = 8$

Opposite: multiply

Preview - Bright Path Sped

My name _____ Date _____

Worked Example: Addition

Read the example. Then fill in the blanks.

Example. Solve $x + 7 = 16$. The numbers are made up for practice.

Step 1

Find the operation. x + 7 means 7 is added to x. This is addition.

$x + 7 = 16$

Step 2

Do the opposite on both sides. Subtract 7 from both sides.

$x + 7 - 7 = 16 - 7$

$x = 9$

Step 3

Check. Put 9 in for x.

$9 + 7 = 16$. Both sides match.

Your turn 1. Solve $x + 6 = 14$

Step 1

Find the operation. ☐ **add** ☐ **subtract** ☐ **multiply** ☐ **divide**

Step 2

Do the opposite on both sides. _____ **x =** _____

Step 3

Check. Put your answer in. _____

Your turn 2. Solve $x + 9 = 21$

Step 1

Find the operation. ☐ **add** ☐ **subtract** ☐ **multiply** ☐ **divide**

Step 2

Do the opposite on both sides. _____ **x =** _____

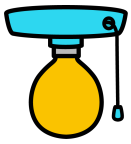
Step 3

Check. Put your answer in. _____

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____



Worked Example: Multiplication

Read the example. Then fill in the blanks.

Example. Solve $4x = 24$. The numbers are made up for practice.

Step 1

Find the operation. 4x means 4 times x. This is multiplication.

$4x = 24$

Step 2

Do the opposite on both sides. Divide both sides by 4.

$$\frac{4x}{4} = \frac{24}{4}$$

$x = 6$

Step 3

Check. Put 6 in for x.

4(6) = 24. Both sides match.

Your turn 1. Solve $3x = 27$

Step 1

Find the operation. ☐ **add** ☐ **subtract** ☐ **multiply** ☐ **divide**

Step 2

Do the opposite on both sides. _____ **x =** _____

Step 3

Check. Put your answer in. _____

Your turn 2. Solve $6x = 30$

Step 1

Find the operation. ☐ **add** ☐ **subtract** ☐ **multiply** ☐ **divide**

Step 2

Do the opposite on both sides. _____ **x =** _____

Step 3

Check. Put your answer in. _____

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Find the Operation

Find the operation. Name its opposite.

Look at x. What is happening to it? Check one, then write the opposite.

1. $x + 6 = 16$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

2. $x - 9 = 8$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

3. $5x = 40$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

4. $\frac{x}{3} = 7$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

5. $x - 4 = 7$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

6. $7x = 63$

I see ☐ add ☐ subtract ☐ multiply ☐ divide

The opposite is to _____ Then x = _____

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Practice: Subtraction

Solve each equation. Show your steps. Then check.

x minus a number. Do the opposite: add. Write x in the box. Check it by putting it in.

1. $x - 6 = 9$

x = ☐ Check: ☐ = ☐

2. $x - 4 = 8$

x = ☐ Check: ☐ = ☐

3. $x - 9 = 11$

x = ☐ Check: ☐ = ☐

4. $x - 7 = 6$

x = ☐ Check: ☐ = ☐

5. $x - 12 = 18$

x = ☐ Check: ☐ = ☐

6. $x - 5 = 3$

x = ☐ Check: ☐ = ☐

PREVIEW

My name _____ Date _____

Practice: Division

Solve each equation. Show your steps. Then check.

x divided by a number. Do the opposite: multiply. Write x in the box. Check it by putting it in.

1. $\frac{x}{2} = 9$

x = ☐ Check: ☐ = ☐

2. $\frac{x}{3} = 5$

x = ☐ Check: ☐ = ☐

3. $\frac{x}{4} = 8$

x = ☐ Check: ☐ = ☐

4. $\frac{x}{5} = 7$

x = ☐ Check: ☐ = ☐

5. $\frac{x}{6} = 4$

x = ☐ Check: ☐ = ☐

6. $\frac{x}{8} = 6$

x = ☐ Check: ☐ = ☐

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Mixed Practice B

Solve each equation. Show your steps. Then check.

All four operations again. Some answers are below zero. Write x in the box. Check it by putting it in.

1. $x - 5 = -8$

x = ☐ Check: ☐ = ☐

2. $x + 9 = 5$

x = ☐ Check: ☐ = ☐

3. $6x = -42$

x = ☐ Check: ☐ = ☐

4. $\frac{x}{5} = -2$

x = ☐ Check: ☐ = ☐

5. $x + 16 = -4$

x = ☐ Check: ☐ = ☐

6. $4x = 48$

x = ☐ Check: ☐ = ☐

PREVIEW

My name _____ Date _____

Word Problems: Add and Subtract

Read the story. Fill in each box.

1. Mia has some stickers. She gets 6 more. Now she has 15 stickers. How many stickers did Mia have at first?

Variable	Equation	Solve	Answer

Check: ☐ = ☐

2. Leo had some marbles. He gave 8 marbles away. Now he has 12 marbles. How many marbles did Leo have at first?

Variable	Equation	Solve	Answer

Check: ☐ = ☐

3. A bus had some riders. Then 7 more riders got on. Now the bus has 25 riders. How many riders were on the bus at first?

Variable	Equation	Solve	Answer

Check: ☐ = ☐

PREVIEW

My name _____ Date _____

Find the Mistake 1

Find the mistake. Then fix it.

Sam is made up for practice. Each problem has one mistake.

1 **Sam solved it like this:**

1 $x + 7 = 19$
2 $x = 19 + 7$
3 $x = 26$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

x = ☐

2 **Sam solved it like this:**

1 $x - 5 = 9$
2 $x - 5 + 5 = 9 + 5$
3 $x = 13$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

x = ☐

3 **Sam solved it like this:**

1 $4x = 28$
2 $x = 28$ times 4
3 $x = 112$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

x = ☐

4 **Sam solved it like this:**

1 $5x = 30$
2 $\frac{5x}{5} = \frac{30}{5}$
3 $x = 5$

The mistake is on line

☐ 1 ☐ 2 ☐ 3

Fix it. Write the right answer.

x = ☐

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 1: Match

Cut out the six pieces. Paste each one next to its answer.

Solve each equation in your head or on scrap paper. Paste it next to its answer.

x = 3	x = 5	x = 8

x = 10	x = 12	x = 24

Cut on the dashed lines: six pieces, one cut across and two cuts down.

$x - 4 = 8$	$3x = 24$	$x + 9 = 14$
$\frac{x}{4} = 6$	$x + 15 = 25$	$5x = 15$

Which one was hardest to match? Why?

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 3: Put in Order

Cut out the six pieces. Paste them in order, 1 to 6.

These six pieces solve $3x = 21$ in order. Which one comes first?

Step 1	Step 2	Step 3

Step 4	Step 5	Step 6

Cut on the dashed lines: six pieces, one cut across and two cuts down.

$\frac{3x}{3} = \frac{21}{3}$	$3x = 21$	Check: $3(7) = 21$
This is multiplication.	Divide both sides by 3.	$x = 7$

Which piece told you the order? Why?

PREVIEW

My name _____ Date _____

Check My Own Work

Check your own work. Mark yes or not yet.

1	I found the operation first.	☐ yes	☐ not yet
2	I did the opposite operation.	☐ yes	☐ not yet
3	I did the same thing to both sides.	☐ yes	☐ not yet
4	I wrote x equals a number.	☐ yes	☐ not yet
5	I checked my answer by putting it back in.	☐ yes	☐ not yet
6	I can tell why I subtract when I see a plus.	☐ yes	☐ not yet
7	I can fill in a box for each part of a word problem.	☐ yes	☐ not yet
8	I can explain my steps to a partner.	☐ yes	☐ not yet

The kind of problem I can do now is...

The kind I still need help with is...

PREVIEW

Answer Key: Operations, Checks, Quiz, Words

Each word problem has one equation; accept any variable letter and any correct order of steps.

Find the Operation page 9

#	Equation	Operation	Opposite	x
1	$x + 6 = 16$	Addition	Subtract	x = 10
2	$x - 9 = 8$	Subtraction	Add	x = 17
3	$5x = 40$	Multiplication	Divide	x = 8
4	$\frac{x}{3} = 7$	Division	Multiply	x = 21
5	$x - 4 = 7$	Subtraction	Add	x = 11
6	$7x = 63$	Multiplication	Divide	x = 9

Check Your Answer page 16

#	Equation	Try	Left	Right	Answer
1	$x + 8 = 15$	x = 7	15	15	Solution
2	$x - 6 = 9$	x = 3	-3	9	Not a solution
3	$4x = 36$	x = 9	36	36	Solution
4	$\frac{x}{5} = 4$	x = 9	$\frac{9}{5}$	4	Not a solution
5	$x + 12 = 20$	x = 6	18	20	Not a solution
6	$7x = 42$	x = 6	42	42	Solution
7	$8x = 56$	x = 7	56	56	Solved

Quiz page 24

#	Equation	Answer
1	$x + 9 = 21$	x = 12
2	$x - 7 = 5$	x = 12
3	$6x = 48$	x = 8
4	$\frac{x}{7} = 4$	x = 28
5	$x + 15 = 40$	x = 25
6	$x - 12 = 9$	x = 21
7	$8x = 72$	x = 9
8	$\frac{x}{5} = 10$	x = 50

Word Problems pages 17, 18

#	Equation	Answer	Check
1	$x + 6 = 15$	x = 9 stickers	Both sides: 15
2	$x - 8 = 12$	x = 20 marbles	Both sides: 12
3	$x + 7 = 25$	x = 18 riders	Both sides: 25
4	$4x = 28$	x = 7 boxes	Both sides: 28
5	$\frac{x}{3} = 8$	x = 24 inches	Both sides: 8
6	$5x = 40$	x = 8 rides	Both sides: 40

PREVIEW

Equations Tracker

One student, every scored page. Filled example: page 33.

Student _____ Teacher _____ Month _____

Page	Page type and set	Items	Right	Date	Notes
9	Find the Operation	6			
10	Practice: Addition	6			
11	Practice: Subtraction	6			
12	Practice: Multiplication	6			
13	Practice: Division	6			
14	Mixed Practice A	6			
15	Mixed Practice B	6			
16	Check Your Answer	7			
17	Word Problems: Add and Subtract	3			
18	Word Problems: Times and Divide	3			
19	Find the Mistake 1	4			
20	Find the Mistake 2	4			
21	Cut and Paste 1: Match	6			
22	Cut and Paste 2: Sort	6			
23	Cut and Paste 3: Put in Order	6			
24	Quiz	8			

How to fill this in

Write how many items the student got right with no prompt, and the date. A blank means not tried yet, never wrong. There are 89 items on the 16 scored pages. Answer keys: pages 26 to 28. Filled example: page 33.

This month we are working on (your own standard or wording)

PREVIEW

Team Note

Use this page between team meetings or when a student moves classes, to hand off what changed without writing a note from scratch. Everything below is observable, with a blank for the number or the wording your team already uses.

Student _____ Team member _____ Date _____

Page type	Covered since last note (Y/N)	Items right	Still blank
Practice: one operation			
Find the operation			
Check your answer			
Word problems			
Find the mistake			
Sorts			
Quiz			

What I saw (observable, not a conclusion)

- Solved ___ of ___ one-step equations without a prompt.
- Named the operation and its opposite correctly on ___ of ___ (page 9).
- Filled in all four boxes of a word problem on ___ of ___ (pages 17, 18).
- Checked the answer by putting it back in: yes / no / with a reminder.

Next step

- Next page or set: ___, because ___ (what you saw).
- What to try in another class or at home: ___.
- What to keep doing because it is working: ___.
- Anything for the team meeting to decide: ___ (this page records what happened, never a label or a plan).

Summary, in one or two sentences, for whoever reads this next

A filled-in line, for reference

"Solved 5 of 6 subtraction equations on Practice: Subtraction with no prompt on 10/7. Next step: say the opposite out loud before writing it." That is the level of detail this page is built for. It matches the filled example on page 33.

PREVIEW

Casey's Tracker (Invented Student)

Casey L. is invented; nothing on this page describes a real student. The blank tracker is on page 29.

Student	Teacher	Month
Casey L. (an invented student)	Ms. Reyes (invented)	October

Page	Page type and set	Items	Right	Date	Notes
9	Find the Operation	6	6	10/10	-
10	Practice: Addition	6	6	10/6	-
11	Practice: Subtraction	6	5	10/7	Added 5 instead of subtracting once
12	Practice: Multiplication	6	6	10/8	-
13	Practice: Division	6	4	10/9	Multiplied instead of dividing twice
14	Mixed Practice A	6	-	-	-
15	Mixed Practice B	6	-	-	-
16	Check Your Answer	7	5	10/13	Item 7 check line not finished
17	Word Problems: Add and Subtract	3	2	10/14	Left the check blank on one
18	Word Problems: Times and Divide	3	-	-	-
19	Find the Mistake 1	4	-	-	-
20	Find the Mistake 2	4	-	-	-
21	Cut and Paste 1: Match	6	-	-	-
22	Cut and Paste 2: Sort	6	-	-	-
23	Cut and Paste 3: Put in Order	6	-	-	-
24	Quiz	8	-	-	-

How to read it

Casey L. has done **7 of 16** scored pages and got **34 of 40** items right with no prompt. **3** pages were all right and **4** carry a note. Every number comes from the table.

What the table points to

The lowest pages are Practice: Division (4 of 6) and Word Problems: Add and Subtract (2 of 3). Those are where the next practice goes. The 9 pages left blank are not tried yet, never wrong.

PREVIEW

Binder Cover

Slide this into the front of a binder. The divider tabs and a spine label to cut out are on the next page (page 36).

Math - Grades 6-7

SIMPLE ONE STEP EQUATIONS

Find it. Undo it. Check it.

Steps	Practice	Check

Teacher _____

Class or student _____

PREVIEW