

SOLVE IT strips®

PLACE VALUE TO THE MILLIONS

The tablet screen shows a clipboard with the "SOLVE IT strips" logo. Below it are five numbered boxes containing numbers and their expanded form representations:

- 203,972 $70,000 + 7,000 + 400,000 + 900 + 60 + 8$
- 505,845 $700,000 + 2 + 20,000 + 2,000 + 20 + 700$
- 722,722 $500,000 + 50,000 + 3,000 + 900 + 80 + 9$
- 477,968 $500,000 + 5,000 + 800 + 40 + 5$
- 553,989 FINISH!

To the right of the clipboard is a vertical column of boxes labeled "EXPANDED FORM" at the top. Each box contains a number and its expanded form:

- START: $600,000 + 2,000 + 400 + 4 + 40,000$
- 642,404 $200,000 + 300 + 4,000 + 70 + 2$
- 204,372 $50,000 + 800 + 90 + 9 + 500,000$
- 550,894 $400 + 60,000 + 40,000 + 2,000 + 10 + 4$
- 642,414 $200,000 + 900 + 3,000 + 70 + 2$

Below these boxes are six empty lines for writing answers. A circled "3" is at the bottom left, and the "INSPIRED elementary" logo is at the bottom right.

DIGITAL VERSION

HOW TO USE DIGITAL SOLVE IT STRIPS®

SAMPLE
(SUMS & DIFF. SET SHOWN)

Students begin by dragging the START strip to the Solve It Strip.

Solve It Strips

START: | + | =

- 10 4 + 1 =
- 8 5 + 1 =
- 2 8 + 1 =
- 4 2 + 1 =
- 3 10 + 0 =
- q 2 + 2 =
- 5 7 + 1 =
- 6 FINISH!

SUMS TO 10

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Solve It Strips

START: | + | =

- 10 4 + 1 =
- 8 5 + 1 =
- 2 8 + 1 =
- 4 2 + 1 =
- 3 10 + 0 =
- q 2 + 2 =
- 5 7 + 1 =
- 6 FINISH!

SUMS TO 10

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Next, they solve the problem given on the START strip (ex. $1+1=2$). So students find the strip that has a 2 in the answer box and drag that below the START strip.

Solve It Strips

START: | + | =

- 10 4 + 1 =
- 8 5 + 1 =
- 2 8 + 1 =
- 4 2 + 1 =
- 3 10 + 0 =
- q 2 + 2 =
- 5 7 + 1 =
- 6 FINISH!

SUMS TO 10

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Solve It Strips

START: | + | =

- 2 8 + 1 =
- 8 5 + 1 =
- 4 2 + 1 =
- 3 10 + 0 =
- q 2 + 2 =
- 5 7 + 1 =
- 6 FINISH!

SUMS TO 10

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Students continue on solving the problems on each strip until they reach the FINISH strip. If students don't end up on the FINISH strip, they didn't do it correctly and need to try again (so it's self-correcting!).

Solve It Strips

START: | + | =

- 10 4 + 1 =
- 8 5 + 1 =
- 2 8 + 1 =
- 4 2 + 1 =
- 3 10 + 0 =
- 5 7 + 1 =
- 6 FINISH!

SUMS TO 10

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Solve It Strips

START: | + | =

- 2 8 + 1 =
- q 2 + 2 =
- 4 2 + 1 =
- 3 10 + 0 =
- 10 4 + 1 =
- 5 7 + 1 =
- 8 5 + 1 =
- 6 FINISH!

SUMS TO 10

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DIGITAL SOLVE IT STRIPS® ARE ENGAGING & FUN!

A hand in a dark sleeve points at a digital solve it strip on a tablet screen. The strip is titled "SOLVE IT STRIPS®" and shows a sequence of math problems. The first problem is 203,972, followed by 70,000 + 7,000 + 400,000 + 900 + 60 + 8. The second problem is 642,404, followed by 200,000 + 300 + 9,000 + 70 + 2. The third problem is 209,372, followed by 50,000 + 800 + 90 + 9 + 500,000. The fourth problem is 550,899, followed by 400 + 600,000 + 40,000 + 2,000 + 10 + 4. The fifth problem is 477,968, followed by 500,000 + 5,000 + 800 + 40 + 5. The final problem is 553,989, followed by 500,000 + 50,000 + 3,000 + 900 + 80 + 9. The strip ends with a "FINISH!" button.

Expanded Form

START: 600,000 + 2,000 + 400 + 4 + 40,000

642,404 200,000 + 300 + 9,000 + 70 + 2

209,372 50,000 + 800 + 90 + 9 + 500,000

550,899 400 + 600,000 + 40,000 + 2,000 + 10 + 4

477,968 200,000 + 900 + 3,000 + 70 + 2

553,989

3

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Directions: Look at the math strips. Solve the expanded form and put them in order from start to finish based on their answers.

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15 DIFFERENT Solve It Strips® IN EACH SET!

SOLVE IT STRIPS

Expanded Form

Directions: Look at the math strips. Solve the expanded form and put them in order from start to finish based on their value.

What's the value?

Directions: Look at the math strips. Find the value of the digit listed and match it to the next strip. Put the strips in order from start to finish based on their value.

MULTIPLY & DIVIDE WHOLE NUMBERS

Directions: Look at the strips. Solve the problem on each strip and answer on the next strip in order from start to finish based on their value.

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SOLVE IT STRIPS

START: $600,000 + 2,000 + 400 + 4 + 40,000$

203,972

$70,000 + 7,000 + 400,000 + 900 + 60 + 8$

550,899

SOLVE IT STRIPS

START: The value of the digit 4 = 8,946,832

500

The value of the digit 7 = 7,028,135

SOLVE IT STRIPS

START: $70 \times 1,000 =$

1,000

$5,000 \times 40 =$

36,000

$9,000 \div 30 =$

600

$600 \times 500 =$

70,000

$30,000 \div 30 =$

300,000

$77,000 \div 110 =$

300

$20 \times 5,000 =$

200,000

$54,000 \div 90 =$

EASY CORRECTING WITH ANSWER KEYS & RECORDING SHEETS

Answer Key – Place Value to the Millions

1	Expanded Form
28,739	
71,406	
158,412	
171,476	
52,525	
287,642	
50,255	
403,497	
40,374	

2	Expanded Form
990,909	
133,023	
436,565	
909,999	

3	Expanded Form
642,404	
209,372	
550,899	
642,414	
203,972	

4	Expanded Form
3,402,404	
450,372	
8,280,232	
450,732	
342,044	
8,008,232	
75,465	
846,229	
17,014	

5	Word Names
464,209	
371,655	
70,462	
649,107	
75,465	
846,229	
17,014	

Name: _____

Date: _____

SOLVE It Strips® ANSWER RECORDING SHEET

START 1	START 2	START 3	START 4	START 5	START 6	START 7	START 8
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
START 9	START 10	START 11	START 12	START 13	START 14	START 15	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

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