

Jump and Solve

Use models and equations to solve within 1,000.

GRADE 3 • TEKS 3.5.A

3.5.A "represent one- and two-step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations;"

NAME _____

DATE _____

SHOW THE STEPS

Break numbers into hundreds, tens, and ones to make addition or subtraction easier. You can show your thinking with a quick picture, an open number line, or an equation. For a two-step problem, solve one action at a time.

WORKED EXAMPLE

$$347 + 126$$

1. Start with 347.
2. Add 100 to get 447.
3. Add 20 to get 467.
4. Add 6 to get 473.

Answer: $347 + 126 = 473$

PRACTICE 6 problems

- 1** Use an open number line. Start at 214 and add 365. Make jumps of 300, 60, and 5. Write the equation and sum.

ANSWER _____

- 2** Write an equation to show 630 stickers with 208 given away. Then solve.

ANSWER _____

- 3** Use a hundreds-tens-ones sketch to solve $456 + 223$.

ANSWER _____

- 4** An open number line starts at 701 and ends at 864. What is the difference? Write a subtraction equation.

ANSWER _____

- 5** Solve the two steps: 900 beads are in a box. Take away 275 beads, then put in 46 more beads.

ANSWER _____

- 6** Find the missing number: $\underline{\hspace{1cm}} + 189 = 700$

ANSWER _____

APPLY IT Show your work

1

Ava has 285 points in a reading game. She earns 146 more points, then spends 97 points on a badge. How many points does she have now? Show your solution with an equation or an open number line.

WORK SPACE

ANSWER _____

2

The dance club made 640 friendship bracelets. They gave 238 bracelets to one group and 179 bracelets to another group. How many bracelets were left? Show an equation or a bar sketch.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game room has 850 prize tickets. Students spend 275 tickets in the morning and 168 tickets in the afternoon. The game room then gets 94 more tickets. How many tickets are there now? Write an equation and explain how each operation matches the story.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use an open number line. Start at 214 and add 365. Make jumps of 300, 60, and 5. Write the equation and sum.	$214 + 365 = 579$
2	Write an equation to show 630 stickers with 208 given away. Then solve.	$630 - 208 = 422$
3	Use a hundreds-tens-ones sketch to solve $456 + 223$.	$456 + 223 = 679$. The sum has 6 hundreds, 7 tens, and 9 ones.
4	An open number line starts at 701 and ends at 864. What is the difference? Write a subtraction equation.	$864 - 701 = 163$
5	Solve the two steps: 900 beads are in a box. Take away 275 beads, then put in 46 more beads.	$900 - 275 + 46 = 671$
6	Find the missing number: $___ + 189 = 700$	511

PART 2 • APPLY IT

- 334 points** Add 146 to 285 to get 431. Subtract 97, so $285 + 146 - 97 = 334$.
- 223 bracelets** Subtract the first group, then the second group. $640 - 238 - 179 = 223$.

CHALLENGE

501 tickets. Subtract the tickets spent, then add the tickets received: $850 - 275 - 168 + 94 = 501$.

Accept correct equations written in a different order when they match the story. Accept clear open number lines, place-value sketches, or bar sketches that show the same totals and differences.