

Show the Math

Use equations, tables, and graphs to share mathematical ideas.

GRADE 5 • TEKS 5.1.E

5.1.E "create and use representations to organize, record, and communicate mathematical ideas;"

NAME _____

DATE _____

CHOOSE A CLEAR REPRESENTATION

A representation shows math in a clear way. An equation shows the calculation, and a table or graph organizes numbers so you can compare them. Choose the representation that helps another person understand your thinking.

WORKED EXAMPLE

A museum has 13 rooms with 3 paintings in each room. Write an equation to show the total number of paintings.

1. There are 13 groups of 3 paintings.
2. Write 13×3 .
3. Multiply $13 \times 3 = 39$.

Answer: $13 \times 3 = 39$ paintings

PRACTICE 6 problems

- 1** A garden has 7 rows with 8 tomato plants in each row. Write an equation and solve.

ANSWER _____

- 2** A teacher shares 72 pencils equally among 9 tables. Write an equation and solve.

ANSWER _____

- 3** A reading club reads 14 pages each day for 5 days. Write an equation and solve.

ANSWER _____

- 4** A library shelf has 52 books. Students borrow 17 books. Write an equation and solve to show how many books are left.

ANSWER _____

- 5** Nia has 18 trading cards. Her cousin gives her 7 more cards. Write an equation and solve.

ANSWER _____

- 6** Five friends collect \$11 each for a club project. They spend \$9 on supplies. Write one equation and solve to show how much money is left.

ANSWER _____

APPLY IT Show your work

- 1** Use the bar graph to find the total number of minutes the students read on Saturday. Write one addition equation that shows the total.

SATURDAY READING MINUTES



ANSWER _____

- 2** At a game club, each round earns 11 points. Create a two-column table titled Rounds and Points for 1, 2, 5, and 8 rounds. Use your table to find the points earned after 8 rounds.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game gives you 10 coins before you play. You earn 7 coins after each round. Make a table with columns Rounds and Coins for 0, 1, 2, 4, and 5 rounds. Then explain how the table shows the number of coins after 5 rounds.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A garden has 7 rows with 8 tomato plants in each row. Write an equation and solve.	$7 \times 8 = 56$ tomato plants
2	A teacher shares 72 pencils equally among 9 tables. Write an equation and solve.	$72 \div 9 = 8$ pencils at each table
3	A reading club reads 14 pages each day for 5 days. Write an equation and solve.	$14 \times 5 = 70$ pages
4	A library shelf has 52 books. Students borrow 17 books. Write an equation and solve to show how many books are left.	$52 - 17 = 35$ books
5	Nia has 18 trading cards. Her cousin gives her 7 more cards. Write an equation and solve.	$18 + 7 = 25$ trading cards
6	Five friends collect \$11 each for a club project. They spend \$9 on supplies. Write one equation and solve to show how much money is left.	$5 \times 11 - 9 = 46$ dollars

PART 2 • APPLY IT

- $28 + 45 + 50 + 22 = 145$ minutes** Add the four bar values: $28 + 45 + 50 + 22 = 145$.
- Rounds: 1, 2, 5, 8. Points: 11, 22, 55, 88. After 8 rounds, 88 points are earned.** Multiply each number of rounds by 11 to fill the table. The row for 8 rounds shows 88 points.

CHALLENGE

Rounds: 0, 1, 2, 4, 5. Coins: 10, 17, 24, 38, 45. The number of coins increases by 7 for each round. The row for 5 rounds shows 45 coins.

Accept equivalent equations with factors or addends in a different order. For tables, accept rows or columns as long as each input is matched with the correct total.