



Brooklake Elementary School

Incoming 4th Grade Summer Math Packet

Dear Incoming Fourth Grade Students,

Welcome to 4th Grade Mathematics! This summer review packet is a review of fundamental skills as you transition to 4th Grade.

Please print this packet, read it carefully, and make sure you answer all of the questions showing your work in a neat, organized fashion.

The work contained in the math packet highlights concepts and other skills that you should be well versed in before entering 4th Grade in September.

Below are just a few websites that you might find helpful:

<http://www.khanacademy.org/>

www.mathtv.com

<https://www.ixl.com/signin/florhampark>

It is recommended that you do not wait until the end of summer vacation to start/complete your math packet. To help you pace yourself, the problems have been divided over the weeks during the summer. This will help you gauge your time and provide you the opportunity to reflect upon your work and the problems you completed before going onto the next section of questions. You may use a separate sheet of paper for your work and attach it.

The Summer Math Packet is due by: **Friday, September 12, 2025.**

We will see you in September! :-)

Have a safe summer!

- The 4th Grade Team

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 2

Review: New Jersey State Learning Standards (NJSLA): Grade 3

Operations and Algebraic Thinking (3.OA)

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Number and Operations in Base Ten (3.NBT)

- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations-Fractions (3.NF)

- Develop understanding of fractions as numbers.

Measurement and Data (3.MD)

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Geometry (3.G)

- Reason with shapes and their attributes.

Preview: New Jersey State Learning Standards (NJSLA): Grade 4

Operations and Algebraic Thinking (4.OA)

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

Number and Operations in Base Ten (4.NBT)

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations-Fractions (4.NF)

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

Measurement and Data (4.MD)

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

Geometry (4.G)

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 3

During the period of **June 23 - July 14th**, it is recommended to complete through problems #1-12.

3.NBT.A.3

1. What is the product of 8 and 80?

3.NBT.A.3

2. What numbers are needed to make the expression true?

$$\underline{\quad} \times 60 = 120$$

$$9 \times \underline{\quad} = 810$$

$$8 \times 70 = \underline{\quad}$$

3.NF.A.3.C

3. Which fractions are equivalent to a whole number?

Select the **two** correct answers.

A. $\frac{4}{4}$

B. $\frac{5}{4}$

C. $\frac{3}{2}$

D. $\frac{1}{2}$

E. $\frac{3}{1}$

3.OA.C.7

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 4

4. Which expressions have a value of 8?

A. $64 \div 8$

D. $56 \div 7$

B. $81 \div 9$

E. $63 \div 9$

C. $48 \div 6$

3.OA.A.3

5. There are 63 students who are placed in reading groups. There are 9 reading groups. The same number of students are placed in each group. How many students are in each group?

Answer: _____

3.NBT.A.2

6.
$$\begin{array}{r} 528 \\ +288 \\ \hline \end{array}$$

3.NBT.A.2

7. What is the value of $518 - 426$?

Name: _____

8. Which fraction is equivalent to 4?

- A. $\frac{1}{4}$
- B. $\frac{1}{1}$
- C. $\frac{4}{4}$
- D. $\frac{4}{1}$

3.NBT.A.3 - 3.OA.D.8

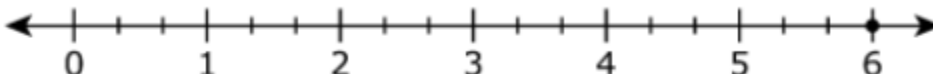
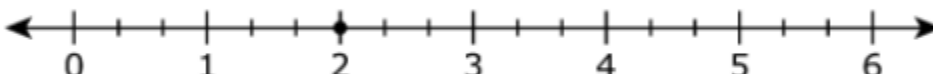
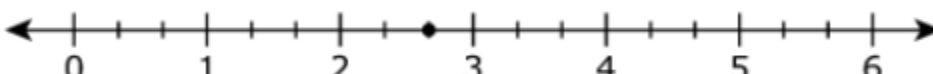
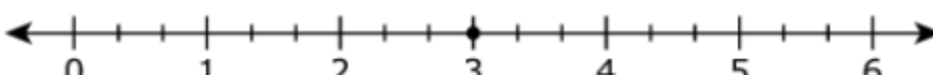
9. A store sells bags of beads. Each bag has 23 red beads and 17 blue beads. A teacher buys 7 bags of beads.

How many total beads did the teacher buy?

3.NF.A.2

10.

Select the number line that has a point plotted at $\frac{6}{3}$.

- A.  A number line from 0 to 6 with tick marks every 1 unit. A point is plotted at 6.
- B.  A number line from 0 to 6 with tick marks every 1 unit. A point is plotted at 2.
- C.  A number line from 0 to 6 with tick marks every 1 unit. A point is plotted at 2.5.
- D.  A number line from 0 to 6 with tick marks every 1 unit. A point is plotted at 3.

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 6

11. Sean will put a border around a rectangular place mat that has a perimeter of 26 inches.

What is the missing length of the side of the place mat?

(hint: label the model to help solve)



3.NBT.A.1

12. Round the following numbers to the nearest hundred:

128 → _____

254 → _____

391 → _____

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 7

During the period of July 15th - August 4th, it is recommended to complete through problem #13-24.

3.NBT.A.3

13. A brick path has 10 rows of 4 bricks. How many bricks are in the path?

3.OA.C.7

14. Fill in the numbers to complete each fact.

Enter your answers in the boxes.

= 7×8

= $63 \div 9$

= $40 \div 5$

= 7×7

= $48 \div 6$

3.NF.A.3.B

15. Select the two equations that are correct.

A. $\frac{1}{6} = \frac{3}{8}$

B. $\frac{2}{3} = \frac{4}{6}$

C. $\frac{3}{4} = \frac{7}{8}$

D. $\frac{4}{8} = \frac{1}{2}$

E. $\frac{5}{6} = \frac{5}{8}$

3.NBT.A.3

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 8

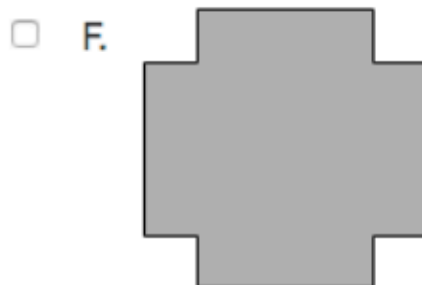
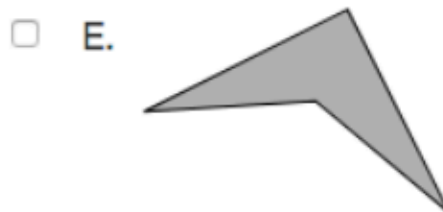
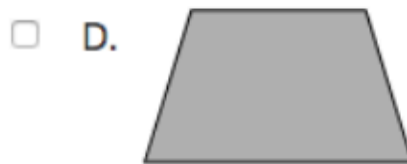
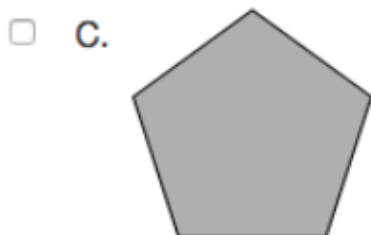
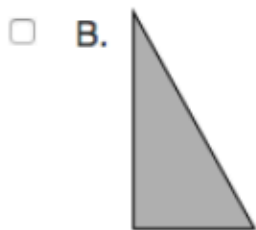
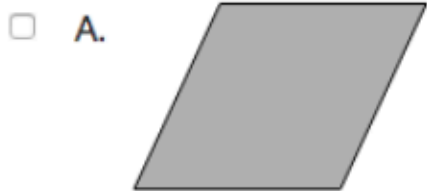
16. Freda buys horse food in 20 kilogram bags. Her horse eats 8 bags of horse food per month.

How much horse food, in kilograms, does Freda's horse eat in one month?

3.G.A.1

17. Which shapes are quadrilaterals?

Select the three correct shapes.



3.OA.A.3

Name: _____

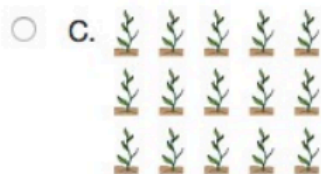
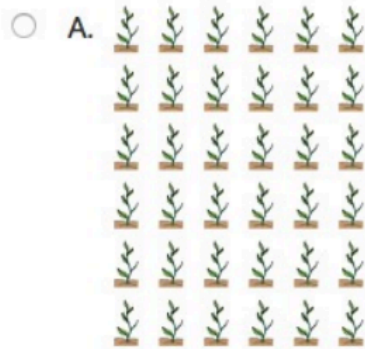
Summer Math Packet for Students Entering 4th Grade Page 9

18. James has 42 inches of string. He cuts the string into 7 equal pieces. How long is each piece of string?

Create a model to solve.

3.OA.A.2

19. Mr. Dixon has 18 plants to put in his garden. He puts 6 plants in each row. Which picture shows Mr. Dixon's garden?



Name: _____

3.NBT.A.3

20. What is the product of 6×7 ?

3.NBT.A.3

21. What is the quotient of $80 \div 10$?

3.NBT.A.2

22. What is the sum of $325 + 409$? (show all work)

3.NBT.A.2

23. What is the difference of $900 - 243$?

3.OA.A.3

24. Bev has exactly 48 feet of ribbon. She cuts the ribbon into pieces that are each 6 feet long.

What is the total number of pieces of ribbon Bev has?

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 11

During the period of August 5th - August 25th, it is recommended to complete through problem #25-36.

3.MD.A.1

25. A student starts practicing the piano at 3:47 p.m. The student finishes practicing the piano at 4:13 p.m. For exactly how many minutes does the student practice the piano?

3.OA.C.7

26. Solve the equations and fill in the missing numbers.

Enter your answers in the boxes.

$3 \times 7 = \boxed{}$

$40 \div 4 = \boxed{}$

$6 \times 8 = \boxed{}$

$64 \div 8 = \boxed{}$

$27 \div 3 = \boxed{}$

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 12

3.MD.A.2 3.NBT.A.1 3.NBT.A.2 3.NBT.A.3

27 & 28.

On a farm, there is a large storage tank that holds water.

PART A

Each day in May, 60 liters of water are used on the farm.

What is the total amount of water, in liters, used on the farm in 7 days?

PART B

The storage tank holds 500 liters of water when full.

During the first 5 days in January after the tank was filled, 386 liters of water were used on the farm.

What is the amount of water in liters that remains in the tank after those 5 days?

Name: _____

3.NBT.A.3

29. Find the product

$80 \times 3 = \boxed{}$

$30 \times 3 = \boxed{}$

$50 \times 6 = \boxed{}$

$40 \times 2 = \boxed{}$

$90 \times 7 = \boxed{}$

3.OA.A.1

30. Which can be represented by the expression 6×3 ?

- A. Henry draws 6 stars. He erases 3 stars.
- B. Jen draws 6 sets of stars. Then she draws 3 more stars.
- C. Nina draws 6 rows of stars. She draws 3 stars in each row.
- D. Barry draws 6 stars. Then he circles 3 equal groups of stars.

Name: _____

31. & 32.

PART A

A teacher has a total of 2 pencils and 6 markers on his desk.

- The teacher needs a total of 50 pencils.
- Each package of pencils has 6 pencils.

How many packages of pencils are needed for the teacher to have a total of 50 pencils in all?

PART B

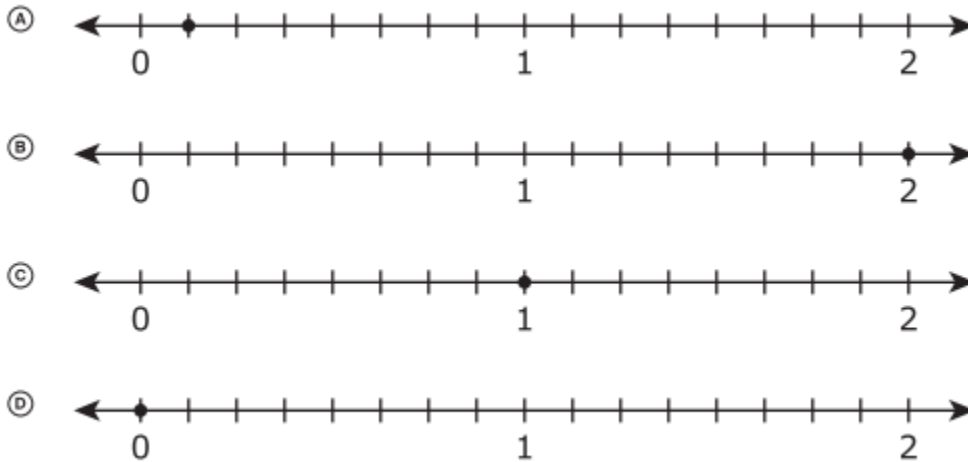
The teacher buys 9 packages of markers. Each package has 4 markers.

How many markers does the teacher have in all?

Name: _____

3.NF.A.3.C

33. Which number line shows $\frac{8}{8}$?



3.MD.A.1

34. Olga started her homework at 2:37 p.m. and finished it at 3:01 p.m.
How long did it take Olga to do her homework?

_____minutes

3.OA.A.3

35. Cavin has 4 boxes. He puts 9 model cars in each box.
What is the total number of model cars Cade put in these boxes?

3.OA.A.4

36. What number should replace the letter “n” in the following equation?

$$n \times 7 = 63$$

$$n = \underline{\hspace{2cm}}$$

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 16

During the period of August 26th - September 12th, it is recommended to complete TWO of the three problems.

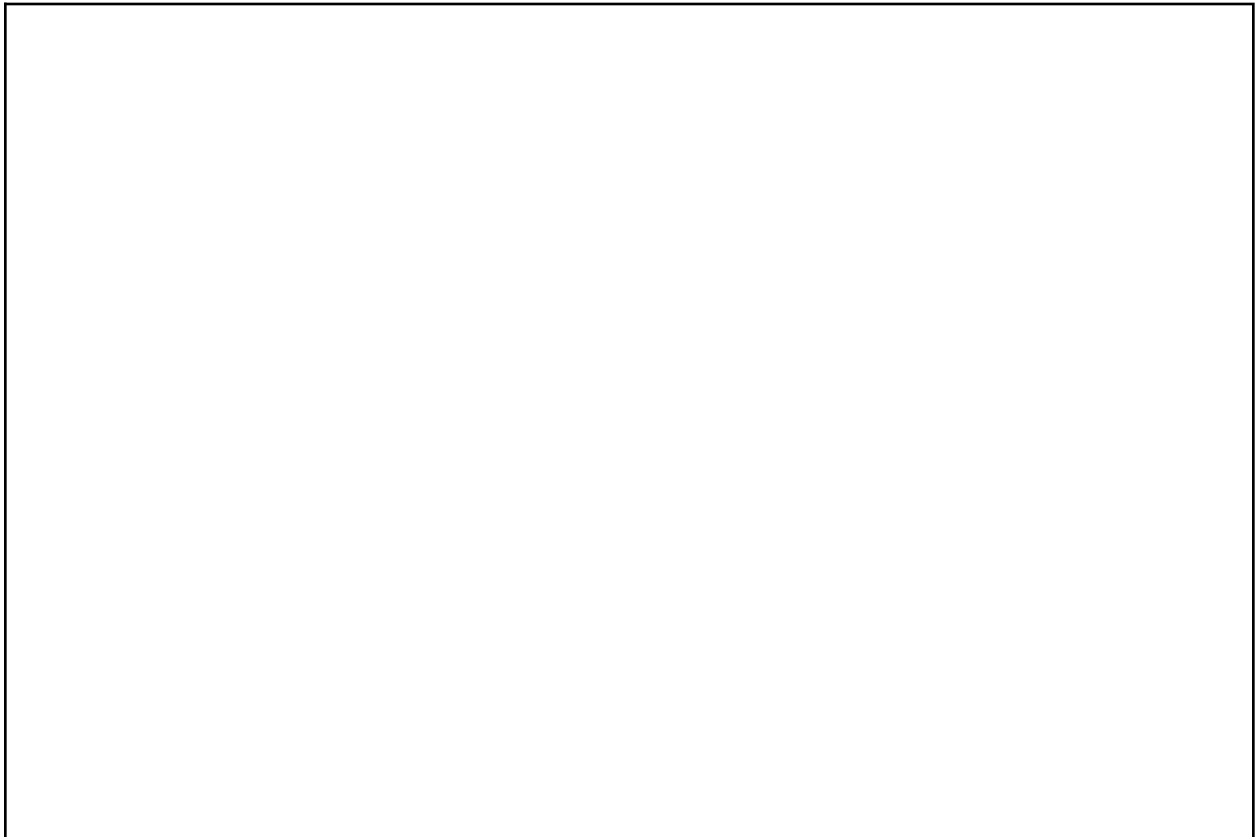
3.D.2

1) A teacher plans to use ropes to make stations in the gym. Each rope is a different length and color.

- The white rope is 45 feet long.
- The blue rope is 30 feet long.
- The yellow rope is 10 feet long.

PART A

- Write an equation or equations to find the total length, in feet, of the white, blue, and yellow ropes. Use the letter t in your equation to show the total length of all of the ropes.
- Find the total length, in feet, of the white, blue, and yellow ropes.
- Show your work or explain your answer.



Name: _____

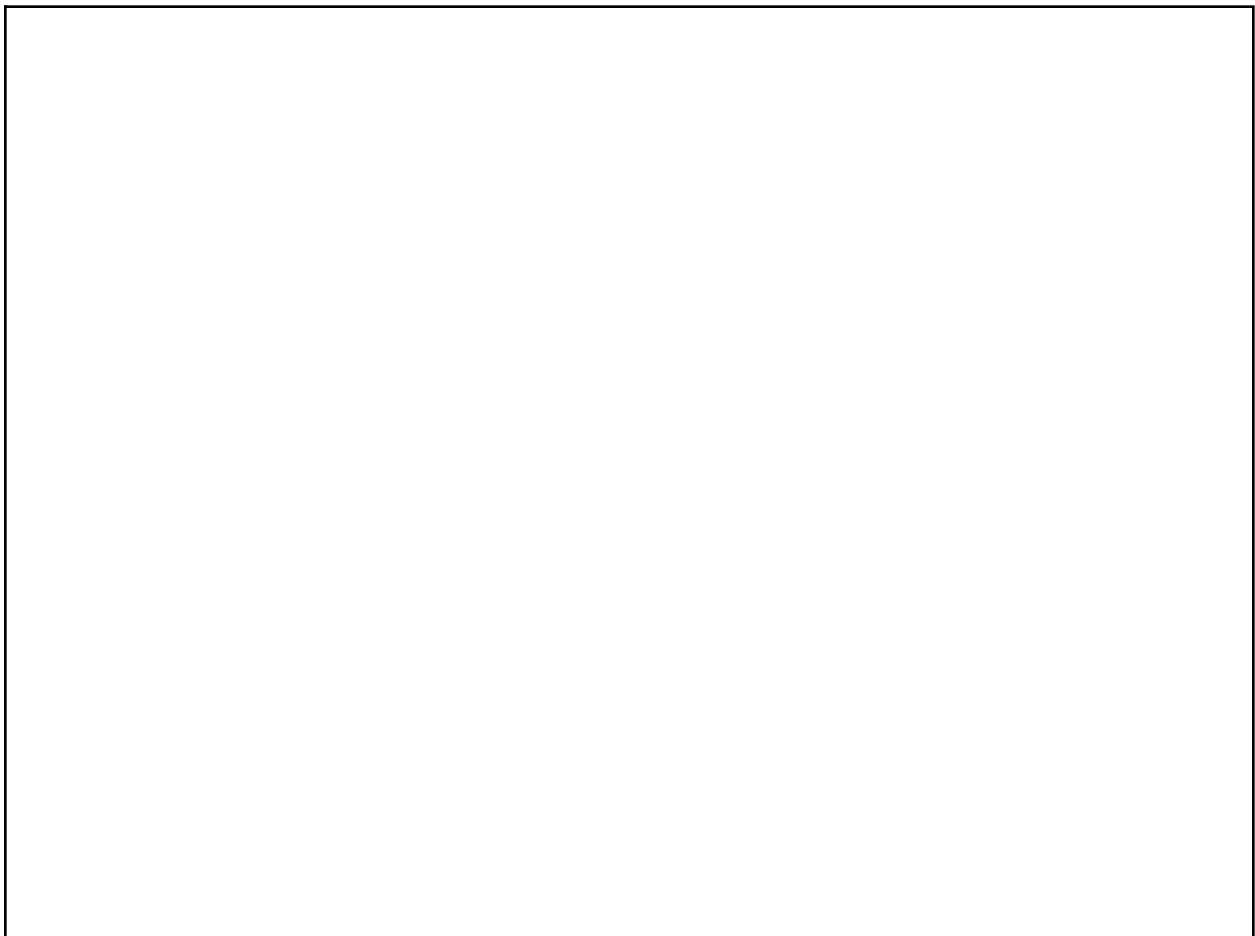
Summer Math Packet for Students Entering 4th Grade Page 17

PART B

The teacher finds a green rope in the gym. The green rope has a length of k feet.

The teacher needs 58 feet of rope to make a new station in the gym. She will use all of the green rope and part of the blue rope. When she is done, there is 6 feet of extra blue rope.

- Find the length of the green rope.
- Show your work or explain your answer.
- Write an equation or equations that can be used to find the length of the green rope. Use the letter k in your equation to show the length of the green rope.

A large empty rectangular box with a black border, intended for the student to show their work or write an equation.

Name: _____

2) At a craft sale, Laura sold 8 drawings for \$6 each. She also sold a toy wagon. Laura was paid a total of \$63 for those items.

Laura's friend thinks the cost of the toy wagon was \$49 because $63 - 8 - 6 = 49$.

PART A

Explain the error that Laura's friend made in finding the cost of the toy wagon. Enter your explanation in the space provided.

PART B

Write an equation or equations to show all of the steps Laura's friend should use to find the cost of the wagon.

Enter your equation or equations in the space provided.

PART C

What is the correct cost, in dollars, of the wagon? Enter your answer in the box.

Name: _____

3)

Juan does sit-ups each day. He will increase the number of sit-ups he does each day. Juan's plan follows a pattern. The table shows the number of sit-ups Juan does each day from day 1 to day 3.

Juan's Sit-Ups

Day	Number of Sit-Ups
1	3
2	9
3	15

PART A

Explain how you could find the number of sit-ups Juan plans to do on day 4 and on day 5. Enter your explanation in the space provided.

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 20

PART B

How many sit-ups does Juan plan to do on day 4 and on day 5.

A. **Juan's Sit-up Plan**

Day	Number of Sit-ups
4	18
5	21

B. **Juan's Sit-up Plan**

Day	Number of Sit-ups
4	18
5	24

C. **Juan's Sit-up Plan**

Day	Number of Sit-ups
4	21
5	24

D. **Juan's Sit-up Plan**

Day	Number of Sit-ups
4	21
5	27

Name: _____

Summer Math Packet for Students Entering 4th Grade Page 21

PART C

Juan has changed his plans. He will increase the number of sit-ups he does by 10 each day. On day 1, Juan does 10 sit-ups.

Juan says he can quickly find the number of sit-ups he plans to do on day 10 by multiplying 10 times 9 since he plans to increase the number of sit-ups by 10 on each of the 9 days.

- Explain why Juan's reasoning is correct or incorrect.
- Include the correct number of sit-ups Juan plans to do on day 10.

Enter your answer and your explanation in the space provided.