

Name _____

Date _____

Algorithm

G4

Algorithm is a set of step-by-step rules or instructions to solve a math problem.

Q1 When using the standard algorithm to add $347 + 285$, which step do you do first?

- A. Add the hundreds ($3 + 2$)
- B. Add the tens ($4 + 8$)
- C. Add the ones ($7 + 5$)
- D. Add all digits at once

Q2 Which shows the correct use of the standard subtraction algorithm for $532 - 247$?

- A. $5 - 2 = 3$, $3 - 4 = -1$, $2 - 7 = -5$, so the answer is -15
- B. $532 - 200 = 332$, $332 - 40 = 292$, $292 - 7 = 285$
- C. $2 - 7 = 5$ (borrow 1), $2 - 4 = 8$ (borrow 1), $4 - 2 = 2$, so the answer is 285
- D. $532 + 247 = 779$

Q3 When multiplying 24×3 using the standard algorithm, which is the correct process?

- A. $4 \times 3 = 12$, write 2, carry the 1; then $2 \times 3 = 6$, plus 1 = 7; so $24 \times 3 = 72$
- B. $3 \times 24 = 3 \times 20 + 3 \times 4 = 60 + 12 = 72$
- C. $24 + 24 + 24 = 72$
- D. Both A and B are correct methods

Q4 What is the first step in the standard addition algorithm for $245 + 138$?

- A. Add hundreds
- B. Add tens
- C. Add ones
- D. Regroup

Name _____

Date _____

Algorithm - Answer Key

Q1 C

Q2 B

Q3 D

Q4 C