

Graded Homework
Math 365

Multiple Choice. Choose the one alternative that best completes the statement or answers the question.

Find the GCD for the given numbers by an appropriate method.

1. 42 and 378 Answer: 42

Letting W stand for the set of whole numbers, I the set of integers, I^+ the set of positive integers, and I^- the set of negative integers, perform the indicated operation.

2. Find $I - W$ Answer: I^-

Write as an addition problem and find the sum.

3. Susan lost 2 pounds the first week, gained 3 pounds the second week, and lost 4 pounds the third week. What was her net gain or loss?

Answer: $-2 + 3 + -4 = -3$

Evaluate.

4. $3 + 9 \cdot -4$ Answer: -33

Find the GCD for the given numbers by an appropriate method.

5. 12, 14, and 18 Answer: 2

Compute or simplify as much as possible.

6. $r - (r - s)$ Answer: $2r + s$

Simplify.

7. $3 + 2(3w + 4) - w$ Answer: $5w + 11$

Use least common multiple or greatest common divisor to solve the problem.

8. George has 793 donuts and 143 bagels. He wants to divide his bagels and donuts into stacks so that there are the same number of pastries in each stack. What is the greatest number of pastries that he can place in each stack?

Answer: 13

Evaluate

9. Let $f(x) = |11 - x|$. Find $f(35)$. Answer: 24

Provide an appropriate response.

10. Identify the property of integers being illustrated.

$-2 \cdot (2 + 4) = (2 + 4) \cdot -2$ Answer: commutative property of multiplication

Classify as true or false.

11. If a and b are even, then $\text{GCD}(a,b)$ must be 2. Answer: false

