

INTEGERS

Subtopic: Properties of Addition and subtraction of integers,

Section 1

1. Mark T for True and F for False

1a. Sum of two whole numbers is a whole number always.

1b. For any two integers a and b, $a+b$ is an integer.

2. Choose the correct answer.

2a. Integers are

- a) Closed under addition
- b) Not closed under addition

2b. Addition in integers is ...

- a) Commutative
- b) is not Commutative

3. Fill in the blanks

3a. Subtraction is not _____ for integers or whole numbers.

3b. A pair of integers whose sum is zero is _____.

4. Match the following.

Column 1	Column 2	Answer here	
a) $-53 + 0$	1) 0	a)	
b) $17 + (-17)$	2) -6	b)	
c) $13 + [(-12) + (-7)]$	3) -13	c)	
d) $(-4) + [15 + (-3)]$	4) -53	d)	
e) $(-5) + (-8)$	5) 8	e)	

Section 2

5. Write a pair of -ve integers whose difference gives 8.

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6. Write down a pair of integers whose sum is -7.

7. Write the associate property using integers -5, -3, -2.

8. Is $5 - (-3)$ the same as $(-3) - 5$? Justify.

Section 3

9. In a quiz team A scored -40, 10, 0 and team B scored 10, 0, -40 in three successive rounds. Which team scored more ?

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10. Write a pair of integers whose difference gives
- a) An integer smaller than both the integers.
 - b) An integer greater than both the integers.
 - c) An integer greater than only one of the integers.