

Chapter 3: Integers

PRACTICE SET 4 [PAGE 15]

Practice Set 4 | Q 1 | Page 15

Classify the following numbers as positive numbers and negative numbers.

-5, +4, -2, 7, +26, -49, -37, 19, -25, +8, 5, -4, -12, 27

SOLUTION

The negative numbers are -5, -2, -49, -37, -25, -4, -12

The positive numbers are +4, 7, +26, 19, +8, 5, 27

Practice Set 4 | Q 2 | Page 15

Given below are the temperatures in some cities. Write to them using the proper signs.

Place	Shimla	Leh	Delhi	Nagpur
Temperature	7°C above 0°	12°C above 0°	22°C above 0°	31°C above 0°

SOLUTION

The temperature of Shimla is -7 °C.

The temperature of Leh is -12 °C.

The temperature of Delhi is +22 °C.

The temperature of Nagpur is +31 °C.

Practice Set 4 | Q 3.1 | Page 15

Write the number in the following example using the proper signs.

A submarine is at a depth of 512 metres below sea level.

SOLUTION

-512 m

Practice Set 4 | Q 3.2 | Page 15

Write the number in the following example using the proper signs.

The height of Mt Everest, the highest peak in the Himalayas, is 8848 metres.

SOLUTION

8848 m

Practice Set 4 | Q 3.3 | Page 15

Write the number in the following example using the proper signs.

A kite is flying at a distance of 120 metres from the ground.

SOLUTION

120 m

Practice Set 4 | Q 3.4 | Page 15

Write the number in the following example using the proper signs.

The tunnel is at a depth of 2 metres under the ground.

SOLUTION

-2 m

PRACTICE SET 5 | PAGE 18**Practice Set 5 | Q 1.1 | Page 18**

Add: $8 + 6$

SOLUTION

$$8 + 6 = 14$$

Practice Set 5 | Q 1.2 | Page 18

Add: $9 + (-3)$

SOLUTION

$$\begin{aligned} 9 + (-3) \\ = 9 - 3 \\ = 6 \end{aligned}$$

Practice Set 5 | Q 1.3 | Page 18

Add: $5 + (-6)$

SOLUTION

$$\begin{aligned} 5 + (-6) \\ = 5 - 6 \\ = -1 \end{aligned}$$

Practice Set 5 | Q 1.4 | Page 18

Add: $-7 + 2$

SOLUTION

$$-7 + 2 = -5$$

Practice Set 5 | Q 1.5 | Page 18

Add: $-8 + 0$

SOLUTION

$$-7 + 2 = -5$$

Practice Set 5 | Q 1.6 | Page 18

Add: $-5 + (-2)$

SOLUTION

$$\begin{aligned} & -5 + (-2) \\ &= -5 - 2 \\ &= -7 \end{aligned}$$

Practice Set 5 | Q 2 | Page 18

Complete the table given below.

+	8	4	-3	-5
-2	$-2 + 8 = +16$			
6				
0				
-4				

SOLUTION

+	8	4	-3	-5
-2	$-2 + 8 = +6$	$-2 + 4 = +2$	$-2 - 3 = -5$	$-2 - 5 = -7$
6	$6 + 8 = 14$	$6 + 4 = 10$	$6 - 3 = 3$	$6 - 5 = 1$
0	$0 + 8 = 8$	$0 + 4 = 4$	$0 - 3 = -3$	$0 - 5 = -5$
-4	$-4 + 8 = 4$	$-4 + 4 = 0$	$-4 - 3 = -7$	$-4 - 5 = -9$

PRACTICE SET 6 [PAGE 19]

Practice Set 6 | Q 1 | Page 19

Write the opposite number of each of the numbers given below.

Number	47	+ 52	- 33	- 84	- 21	+ 16	- 26	80
Opposite number								

SOLUTION

Number	47	+ 52	− 33	− 84	− 21	+ 16	− 26	80
Opposite number	− 47	− 52	+ 33	+ 84	+ 21	−16	+ 26	− 8

PRACTICE SET 7 [PAGE 19]**Practice Set 7 | Q 1 | Page 19**

Write the proper signs $>$, $<$ or $=$ in the boxes below.

(1) -4 ____ 5	(2) 8 ____ -10	(3) $+9$ ____ $+9$	(4) -6 ____ 0
(5) 7 ____ 4	(6) 3 ____ 0	(7) -7 ____ 7	(8) -12 ____ 5
(9) -2 ____ -8	(10) -1 ____ -2	(11) 6 ____ -3	(12) -14 ____ -14

SOLUTION

(1) $-4 < 5$	(2) $8 > -10$	(3) $+9 = +9$	(4) $-6 < 0$
(5) $7 > 4$	(6) $3 > 0$	(7) $-7 < 7$	(8) $-12 < 5$
(9) $-2 > -8$	(10) $-1 > -2$	(11) $6 > -3$	(12) $-14 = -14$

PRACTICE SET 8 [PAGE 20]**Practice Set 8 | Q 1 | Page 20**

Subtract the numbers in the top row from the numbers in the first column and write the proper number in each empty box.

−	6	9	−4	−5	0	+7	−8	−3
3	$3 - 6 = -3$							
8				$8 - (-5) = 13$				
−3								
−2								

SOLUTION

–	6	9	–4	–5	0	+7	–8	–3
3	$3 - 6 = -3$	$3 - 9 = -6$	$3 + 4 = 7$	$3 + 5 = 8$	$3 - 0 = 3$	$3 - 7 = -4$	$3 + 8 = 11$	$3 + 3 = 6$
8	$8 - 6 = 2$	$8 - 9 = -1$	$8 + 4 = 12$	$8 - (-5) = 13$	$8 - 0 = 8$	$8 - 7 = 1$	$8 + 8 = 16$	$8 + 3 = 11$
–3	$-3 - 6 = -9$	$-3 - 9 = -12$	$-3 + 4 = 1$	$-3 + 5 = 2$	$-3 - 0 = -3$	$-3 - 7 = -10$	$-3 + 8 = 5$	$-3 + 3 = 0$
–2	$-2 - 6 = -8$	$-2 - 9 = -11$	$-2 + 4 = 2$	$-2 + 5 = 3$	$-2 - 0 = -2$	$-2 - 7 = -9$	$-2 + 8 = 6$	$-2 + 3 = 1$