Worksheet 6: Adding and Subtracting Larger Numbers

Class 6 | Ganita Prakash

Name: _____	**Class:** _____	**Section:** _____
Date: _____	**Maximum Marks:** 50	

Key Ideas to Remember

- In a mine, the ground level is 0. Levels above the ground are positive and levels below the ground are negative (in metres).
- Starting Level + Movement = Target Level. Example: (+120) + (−70) = +50
- Target Level − Starting Level = Movement needed. Example: (+30) − (−90) = +120
- The rules for adding and subtracting are exactly the same for small and large integers: just take care with the bigger numbers.

A. Fill in the Blanks [10 × 1 = 10 marks]

Write the correct answer in the blank.

1. (+150) + (+275) = _____

2. (−120) + (−85) = _____

3. (+300) + (−450) = _____

4. (−260) + (+400) = _____

5. (+360) − (+475) = _____

6. (−325) − (−150) = _____

7. (+120) − (−80) = _____

8. (−90) − (+210) = _____

9. (+250) + (_____) = −100

10. (−180) − (_____) = +40

B. Multiple Choice Questions [10 × 1 = 10 marks]

Choose the correct option.

1. (+345) + (+278) = ?
(a) +67 (b) +623 (c) −623 (d) +523

2. (−412) + (−189) = ?
(a) −223 (b) +601 (c) −601 (d) −301

3. (+560) + (−725) = ?
(a) +165 (b) −165 (c) +1,285 (d) −1,285

4. (−830) + (+495) = ?
(a) −1,325 (b) +335 (c) −335 (d) +1,325

5. (+720) − (+365) = ?
(a) +1,085 (b) −355 (c) +355 (d) +455

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6. (−540) − (−260) = ?
(a) −800 (b) +800 (c) +280 (d) −280

7. (+275) − (−125) = ?
(a) +150 (b) +400 (c) −400 (d) −150

8. (−315) − (+185) = ?
(a) −130 (b) +130 (c) −500 (d) +500

9. A mine lift is at +90 m. It goes down 240 m. It is now at level
(a) +150 m (b) −330 m (c) −150 m (d) +330 m

10. A lift is at +120 m. To reach −75 m it must move
(a) +195 m (b) −45 m (c) +45 m (d) −195 m

C. True or False [5 × 1 = 5 marks]

Circle True or False.

1. (+500) + (−500) = 0 **True / False**

2. (−350) + (−150) = −200 **True / False**

3. (+400) − (+650) = −250 **True / False**

4. (−275) − (−275) = −550 **True / False**

5. (+800) − (−200) = +600 **True / False**

D. Match the Following [5 × 1 = 5 marks]

Match each expression in Column A with its value in Column B. Write the letter in the blank.

Column A	Column B
1. (+450) + (−200) _____	(a) +500
2. (−300) + (−225) _____	(b) −225
3. (+175) − (+400) _____	(c) +280
4. (−60) − (−340) _____	(d) +250
5. (+310) − (−190) _____	(e) −525

E. Solve the Following [10 × 1 = 10 marks]

Show your working and write the answer.

1. (+475) + (+368) = _____

2. (−256) + (−739) = _____

3. (+614) + (−982) = _____

4. (−847) + (+529) = _____

5. (+1,250) − (+1,875) = _____

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6. (−960) − (−485) = _____

7. (+735) − (−265) = _____

8. (−418) − (+592) = _____

9. (+305) + (−640) + (+180) = _____

10. (−275) − (−450) + (−300) = _____

F. Word Problems [5 × 2 = 10 marks]

Write the integer expression and solve. Show your working.

1. A mine lift is at +60 m, above the ground. It goes down 245 m. At what level is it now?

2. A lift in a mine is at level −140 m. It goes up to level +65 m. How many metres, and in which direction, does it move?

3. Sunita has ₹2,500 in her bank account. A debit of ₹3,100 is made from the account. What is her new balance?

4. A hiker is at a camp at +1,250 m. She goes down into a cave at −380 m. What is the change in her level?

5. A submarine is at −450 m. It rises 275 m and then dives 600 m. Find its final level.

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ANSWER KEY

Adding and Subtracting Larger Numbers

A. Fill in the Blanks

1. +425	**2.** −205	**3.** −150	**4.** +140	**5.** −115
6. −175	**7.** +200	**8.** −300	**9.** −350	**10.** −220

B. Multiple Choice Questions

1. (b) +623	**2.** (c) −601	**3.** (b) −165	**4.** (c) −335	**5.** (c) +355
6. (d) −280	**7.** (b) +400	**8.** (c) −500	**9.** (c) −150 m	**10.** (d) −195 m

C. True or False

1. True
2. False – (−350) + (−150) = −500
3. True
4. False – (−275) − (−275) = 0
5. False – (+800) − (−200) = +1,000

D. Match the Following

1. → (d) +250	**2.** → (e) −525	**3.** → (b) −225	**4.** → (c) +280	**5.** → (a) +500

E. Solve the Following

1. (+475) + (+368) = +843
2. (−256) + (−739) = −995
3. (+614) + (−982) = −368
4. (−847) + (+529) = −318
5. (+1,250) − (+1,875) = −625
6. (−960) − (−485) = −475
7. (+735) − (−265) = +1,000
8. (−418) − (+592) = −1,010
9. (+305) + (−640) + (+180) = −155 [+305 + (−640) = −335; −335 + (+180) = −155]
10. (−275) − (−450) + (−300) = −125 [−275 − (−450) = +175; +175 + (−300) = −125]

F. Word Problems

1. (+60) + (−245) = −185.
The lift is at level −185 m (185 m below the ground).

2. (+65) − (−140) = +205.
It moves 205 m upwards.

3. (+2,500) + (−3,100) = −600.
Her new balance is −₹600 (overdrawn by ₹600).

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4. (−380) − (+1,250) = −1,630.
Her level changes by −1,630 m (she goes down 1,630 m).

5. (−450) + (+275) = −175; (−175) + (−600) = −775.
The submarine is at level −775 m.

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