6th - Integers II

Operations on integers:

Addition:

1. Add (-2) to (-3), i.e. (-3) + (-2).
2. Add the following:
   a) 2+3 b) 2+(-3) c) -2+3 d) -2+(-3)
3. Add the following:

a) 11 + (+9)	b) 121 + (+22)
c) 21 + (-11)	d) 22 + (-121)
e) -13 + (+15)	f) (-26) + (+13)
g) (-33) + (-55)	h) (-81) + (-132)

4. Add the following integers:

a) -8, -6	b) -8, -1	c) -6, 6
d) -1,-2	e) -3, -2	f) 8,6

5. Use the number line to solve the following:

a) 6+(-3)	b) 1 - (+3)	c) 1 + (-5)
d) 12 +(-5)	e) 4 + (-2)	f) 7 + (+2)

6. Add the following:

a) (-20) and (+30)	b) (+10) and (-12)	c) (+8) and (-20)
d) (-7) and (-3)	e) (-20) and (-30)	

7. Add the following:
   a) 343, 356,-343 b) -726, 789, 726, -236 c) 293, -293 d) 8

Subtraction

1. Find
   a. 6 -(-7) b) -13 - (+5) c) -12 - (-16) d) -20 - (-4)
2. Subtract the following.
   a) 20 - (+3) b) 120 - (-30) c) -119 - (+27) d) -212 - (-32)
3. Simplify: 567 + 345 - 167
4. Add: 734 + 69 + 131 - 234
5. Solve: 937+ (-37) + 100 - (- 200) + 300
6. Subtract 65 from -80
7. Subtract -30 from -70.
8. Simplify
   (a) - (-10) (b) -(-20) (c) -(-4) (d) -(-70)
9. Subtract the following:
   (a) 7-(-4) (b)9-(-1) (c) 8-(-10) (d) 16-(-7)
10. Simplify
    (a) (-3) - 4 (b) 16 - 9 (c) (-3)-(-8+9) (d) (-2)-(-12)
11. Subtract the sum of 28 and -12 from 50.
12. Find the value of:
    1. 1234 X 567 - 234 X 567 2. 739 X 99 - (- 739)
    3. (-70) X (10 -5 -22 -83) 4. 861 X (-3) + (-861) X 7
    5. 326 X (-108) + 326 X 8 6. 242 X (-95) + 242 X (-4) -242
16. Find the product of 26 negative and 10 positive integers.
17. Find the quotient:
    a. 374 ÷ (-17) b. - 1331 ÷ (-11) c. (- 35000) ÷ 50 d. 125 ÷ (- 5)

18. In an Olympiad there were 25 questions. 2 marks was allotted to every correct answer and (-1) to every wrong answer. Mohan attempted 22 questions out of which 2 answers were wrong. The teacher gave him 40 marks. Mohan went to the teacher and told that he had got more marks. Find actual marks of Mohan.

19.Solve:

1. $(-1)^{100}$ b) $(-2)^4$ c) 12^2 d) $(-6)^2$ e) 19^{th} power of (-1)

20. Verify:

1) $(-5)^2 \times (-5)^3 \times (-5) = (-5)^6$ 2) $5^2 - 3^2 = 4^2$

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