Section 1.1a - Practice Problems

EMERGING LEVEL QUESTIONS

Execute the following operations by displaying diagrams of the situation, what do you start with?

1.
$$3 + (-2)$$



2.
$$(-5) + (-7)$$

3.
$$3 - (-5)$$

4.
$$12 - 7$$

5.
$$-7-4$$

Add the following Integers without a calculator

6.
$$4+7$$

7.
$$4 + (-7)$$





8.
$$(-4) + (-7)$$

9.
$$-4+7$$





10.
$$4+3+6$$

11.
$$4 + (-3) + 6$$





PROFICIENT LEVEL QUESTIONS

12. 10 + 5 + (-12)

13. 4 + (-5) + 12

3

111

14. -4 + (-5) + 7

15. -7 + 3 + (-5)

-2

-9

Subtract the following Integers without a calculator

EMERGING LEVEL QUESTIONS

16. 18 - 5

17. -18 - 7

12

-25

18. -4-(-7)

19. 4 – 7

3

-3

PROFICIENT LEVEL QUESTIONS

20. -13 - 8 - (-4)

21. -15 - 6 - 3

-17

-24

22. -7 - (-4) - (-6)

23. -12 - (-15) - 4

3

-

24. 14 - (-5) - 9

25. 21 - (-7) - 10

10

18

EXTENDING LEVEL QUESTIONS

Add and Subtract the following decimal integers without a calculator

26.
$$-4.06 + 1.83$$

27.
$$-5.637 + (-3.71)$$

29. -5.637 - (-3.711)

28.
$$4.06 - 1.83$$

31.
$$-7.204 + (-1.8)$$

EMERGING LEVEL QUESTIONS

Multiply and Divide the following integers without a calculator

32.
$$-4 \cdot 7$$

33.
$$-4 \cdot (-7)$$



34.
$$2 \cdot (-9)$$

35.
$$-4 \cdot 7$$

- 36. 4 · 3 · 6
 - 72

- 37. $4 \cdot (-3) \cdot 6$
 - -72

- 38. 10 · 5 · (-12)
 - -600

- 39. 4 · (-5) · 12
 - -240

- 40. $-40 \div (-5)$
 - 8

- 41. $-72 \div 3$
 - -24

PROFICIENT LEVEL QUESTIONS

- 42. $-112 \div 2$
 - -56

- 43. $-200 \div 5$
 - -40

- 44. $-70 \div 2 \cdot (-1)$
 - 35

- 45. $28 \div (-4) \cdot (-3)$
 - 21

- 46. $-56 \div (-8) \cdot (-6)$
 - -42

- 47. $720 \div -3 \cdot (-3)$
 - 720

EXTENDING LEVEL QUESTIONS

Transform the written statements into a numerical statement and solve it.

48. My mother gave me \$25 dollars to buy food. I decide to order on Uber Eats and the meal cost me \$13, the delivery cost me \$4, and I tipped the driver \$2. How much money do I have left. Was this a good use of my money?

49. My bank account is in overdraft \$42.1 get charged an additional \$5 fee, and then pay back \$30. How much do I still owe?

50. In Victoria today is $7^{\circ}C$ and in Edmonton is $15^{\circ}C$ below zero. What is the difference in the temperature between the two cities.

51. The phone I want to buy costs \$1200 outright, I have \$856 saved up, how much am I short?

52. I am in debt \$4200 but I have amazing friends.
Three of them said they would split the debt with me, how much do we owe each?

53. My office has arranged a Holiday party, there are a number of fees to pay though. The booking of the restaurant costs \$600, the transportation costs \$475, and the food costs \$2500. We have \$575 in the staff account to offset the cost. If 300 people are coming, how much do they each owe?

54. My family trip cost us \$6548. Each member of the family (5 of us) has \$1310 to contribute to the bill. Do we have enough money to pay back the entire cost? By how much are we short or over?

- 55. 15 people all contribute \$575 over the course of 5 months to a savings fund.
- How much do they each contribute per month?

II) How much is there in the fund at the end of the 5 months?

III) If they need \$9000 in the fund at the end of the 5 months, how much are they over or short?

$$9000 - 8625 = 375$$

nort $$375$

IV) How much would each person need to contribute monthly to make the goal of \$9000?