

P.5 MATHS LESSON NOTES WEEK 5 NOVEMBER

LESSON 1

Addition of integers without a number line

Tips

- a) If both integers are positive the result is +ve
- b) If both integers are negative the result is -ve
- c) If the positive numeral is bigger the result is +ve
- d) If the negative numeral is bigger the result is -ve
- e) If a number is added to its inverse/opposite the result is zero.

Examples

<p>1. $+4 + +6$</p> <p>$+4(++)6$ $+x+=+$</p> <p>$+4 + 6$</p> <p>$=+10$</p>	<p>3. $-3 + +7$</p> <p>$-3(++)7$</p> <p>$-3 + 7$</p> <p>$= +4$</p>
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<p>2. $+8 + -5$</p> <p>$+9(+ -)$ $+x - = -$</p> <p>$+8 - 5 =$</p> <p>$+3$</p>	<p>4. $-5 + -5$</p> <p>$-5(+ -)5$ $+x - = -$</p> <p>$-5 - 5$</p> <p>-10</p>
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Exercise

Add the following without using a number line.

1. $+8 + +5$

2. $-8 + +4$

3. $+12 + +4$

4. $-10 + -5$

5. $-6 + +9$

6. $-11 + +4$

7. $-20 + -25$

8. $-12 + +8$

9. $+8 + -8$

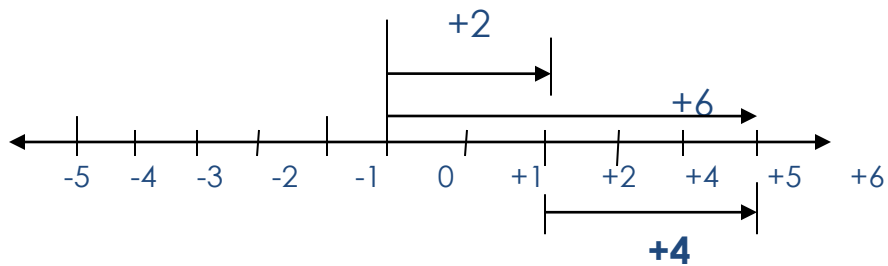
10. $-6 + -6$

LESSON 2

Subtracting integers using a number line

Example

$$+6 - +2$$



Note

In subtraction of integers, maintain the integers and their signs on the number line and always all the arrows start from the same origin.

Activity

Subtract the following using number line

1. $+7 - +2$

2. $+6 - +1$

3. $-3 - +2$

4. $-3 - +7$

5. $-10 - -6$

LESSON 3

Subtraction of integers without using a number line

Examples

- | | | |
|----|------------|-----------------------|
| 1. | $+7 - +3$ | $+6 + 2$ |
| | $+7(-+)3$ | $+8$ |
| | $-x + = -$ | |
| | $+7 - 3$ | |
| | $= +4$ | |
| | | 3. $-7 - -9$ |
| | | $-7(- -) 9 - x - = +$ |
| 2. | $+6 - -2$ | $-7 + 9$ |
| | $+6(- -)2$ | $+2$ |

Exercise

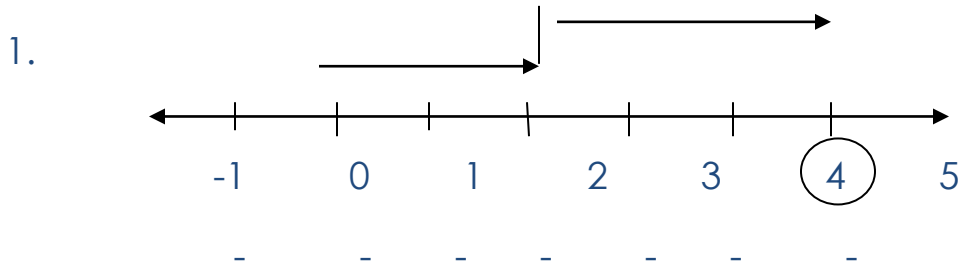
Subtract the following without using a number line

1. $+6 - +4$
2. $-2 - +2$
3. $+9 - +12$
4. $-6 - +3$
5. $+8 - +5$
6. $-2 - -8$
7. $+4 - -8$
8. $+6 - -4$
9. $-4 - +2$
10. $+1 - -1$

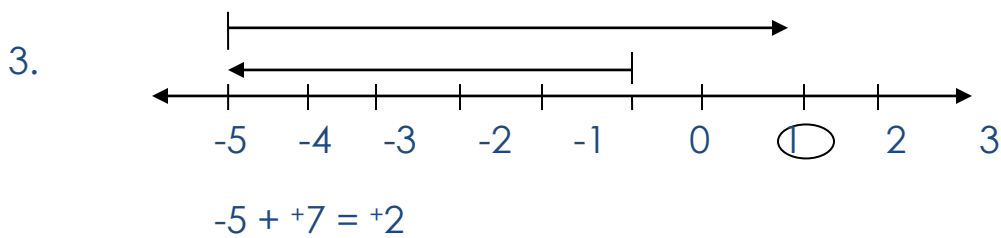
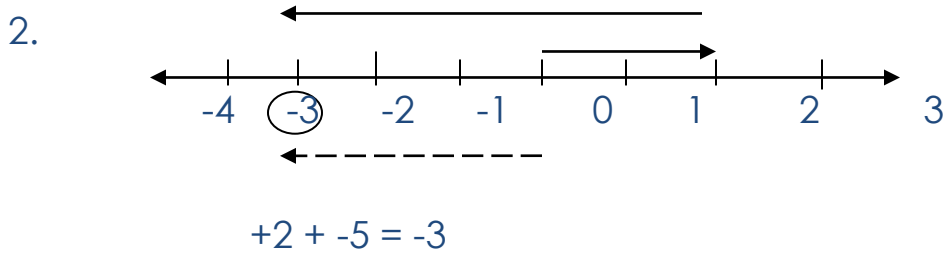
LESSON 4

Formation of mathematical statements from number lines

Example

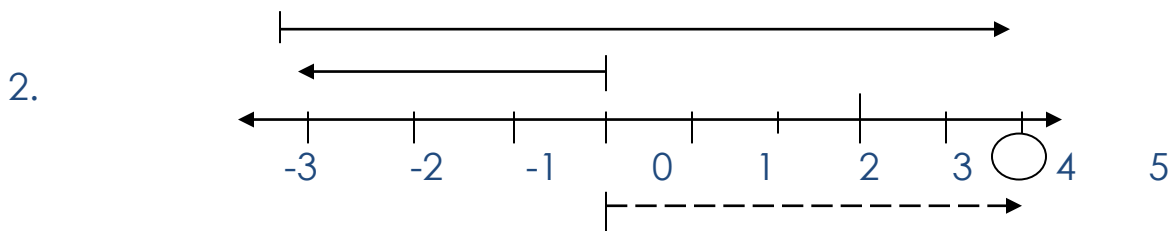
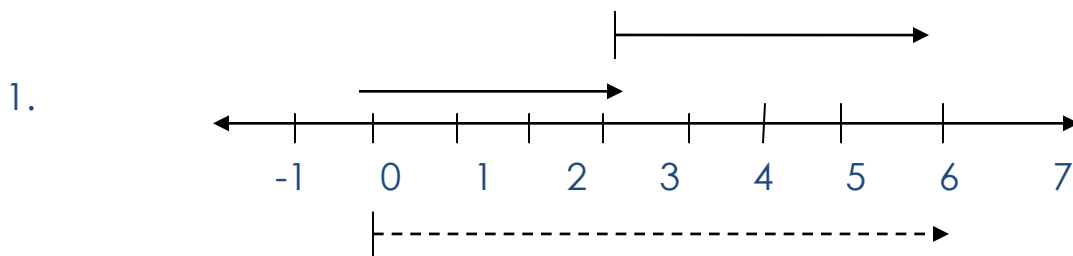


Statement - $+2 + +3 = +5$

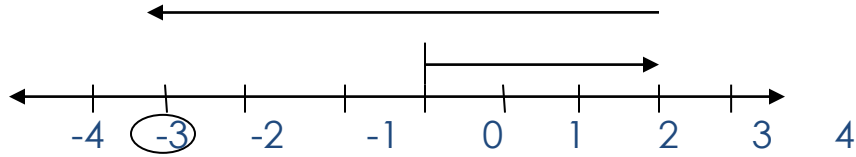


Exercise

Write mathematical statements for the number lines below.



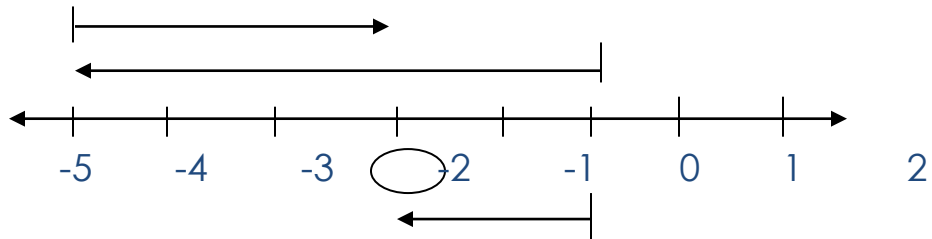
3.



4.



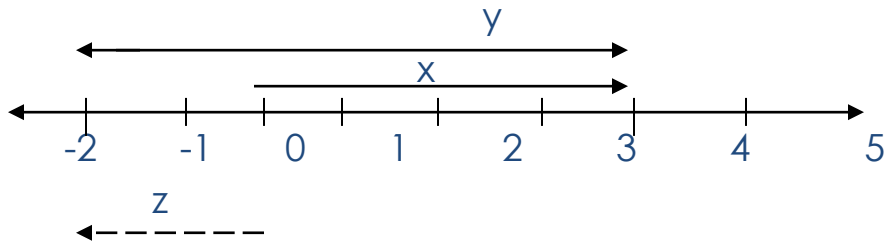
5.



LESSON 5

ACTIVITY

1. Study the number line below and answer questions that follow.



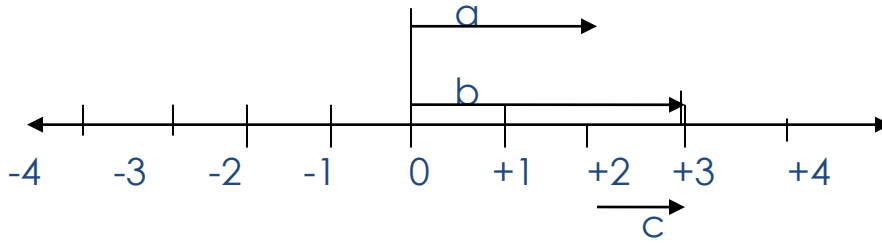
a) Find the value of; (i) x

(ii) y

(iv) z

b) Write a mathematical statement for the above number line.

2.



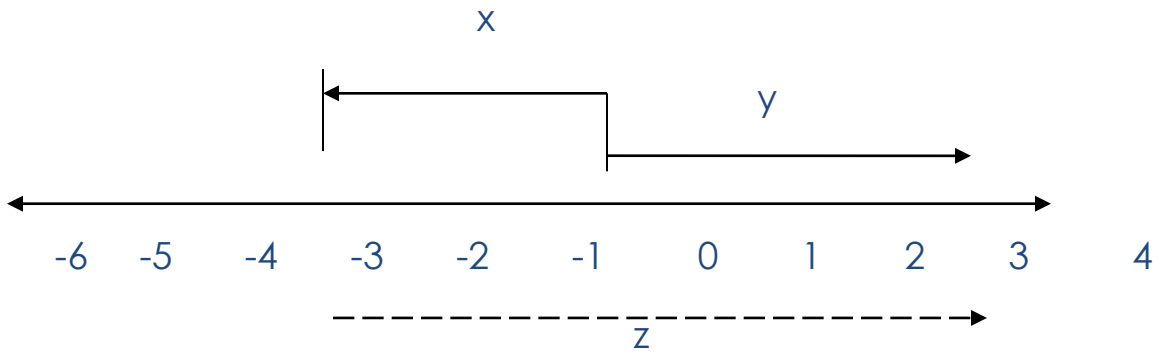
Write down the integers represented by letters

a=

b=

c=

3.



a) X =

b) Y =

c) Z =

b) Write down the mathematical statement

