INTEGERS

Problems based on Division of Integers

SUBJECT : MATHEMATICS
CHAPTER NUMBER: 01
CHAPTER NAME : INTEGERS

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Learning outcome

Students will be able to

- divide integers with the same sign
- divide integers with different signs
- evaluate problems involving arithmetic (+, -, x , ÷) operations

Previous Knowledge Test

If x and y are integers, is i) $x \div y$ is an integer?

ii) $x \div 1 = x$.

I) No
ii) Yes

Ex1B

5. State, true or false:

(i) 0 ÷ 32 = 0

(ii) 0 ÷ (-9) = 0

(iii) (-37) ÷ 0 = 0

(iv) 0 ÷ 0 = 0

Solution:

(i) True.

(ii) True.

(iii) False. It is not defined.

(iv) False. It is not defined.

6. Evaluate:

(i) 42 ÷ 7 + 4

(ii) 12 + 18 ÷ 3

(iii) 19 – 20 ÷ 4

(iv) 16 – 5 × 3 + 4

(v) 6 – 8 – (-6) ÷ 2

EX 1 D

9. Write all the integers between – 15 and 15, which are divisible by 2 and 3.

Solution:

Here the integers between – 15 and 15 are
– 12, – 6, 0, 6 and 12 which are divisible by 2 and 3.

10. Write all the integers between – 5 and 5, which are divisible by 2 or 3.

Solution:

Here the integers between – 5 and 5 are
– 4, – 3, – 2, 0, 2, 3 and 4 which are divisible by 2 or 3.

HW

Exercise 1B Q No. 4

THANKING YOU

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