INTEGERS

Problem Solving Based On Removal Of Brackets

SUBJECT : MATHEMATICS
CHAPTER NUMBER: 01
CHAPTER NAME : INTEGERS

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Learning outcome

Students will be able

- to calculate multiplication involving bigger integers.
- to simplify a series of arithmetic operations on integers quickly

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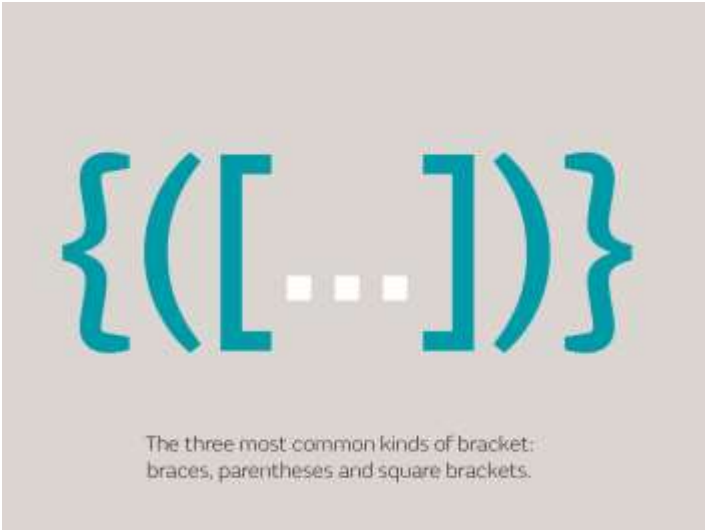
Changing your Tomorrow

Video on removal of brackets
https://www.youtube.com/watch?v=HTD0ntJl98k



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Q.No. 8

$17- [17-\{17-(17 -\overline{17 - 17})\}]$

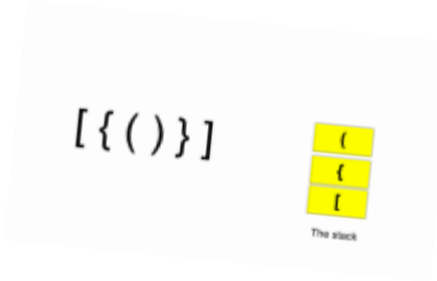
$= 17-[17-\{17-(17-0)\}]$

$= 17 - [17 - \{17 - 17\}]$

$= 17 - [17 - 0]$

$= 17-17$

$= 0$



Q.No. 9

$2550- [510-\{270-(90-\overline{80 + 7})\}]$

$= 2550 - [510 - \{270 - (90 - 87)\}]$

$= 2550 -[510- \{270 -3\}]$

$= 2550-[510-267]$

$= 2550 - 243$

$= 2307$

Q.No. 10

$30+ [\{-2 \times (25-\overline{13 - 3})\}]$

$= 30 + [\{-2 \times (25 - 10)\}]$

$= 30 + [\{-2 \times 15\}]$

$= 30 + [-30]$

$= 30-30$

$= 0$

Q.No. 11

88- {5-(-48)+ (-16)}

$=88 - \left\{5 - \frac{(-48)}{-16}\right\}$

= 88 − {5-3}

= 88 − 2

= 86

Q.No. 12

9 x (8-$\overline{3+2}$) -2(2 + $\overline{3+3}$)

= 9 x (8 − 5) − 2(2 + 6)

= 9 x 3 − 2 x 8

= 27- 16

= 11

Q.No. 13

2 − [3 − {6 − (5 − $\overline{4-3}$)}]

⇒ 2 − [3 − {6 − (5 − 1)}]

⇒ 2 − [3 − {6 − 4}]

⇒2 − (3 − 2)

⇒2-1 = 1

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HW Exercise 1C Q.No. 3 & 4

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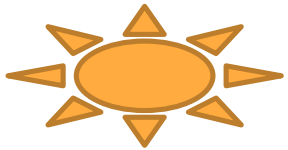

AHA

i) 23 - [23 - {23 - (23 - 23 - 23)}]

ii) 2550 - [51 0 - {270 - (90 - 80 + 70)}]

THANKING YOU

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