EXPRESSWALA EDUCATION

RUNNING NOTES

Integers

Teacher's handwritten notes, typed

IN THESE NOTES

Addition of Integers

Multiplication of integers

Divisions

Expresswala Education

6 pages

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Addition of Integers 3
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Divisions 5

[diagram: number line from −4 to 4 with jump arcs between consecutive integers]

Integers = ... −3, −2, −1, 0, 1, 2, 3, -----

Addition of Integers:

5 + 8 = 13

−5 − 8 = −(5 + 8) = −13

−5 + 8 = +(8 − 5) = +3

5 − 8 = −(8 − 5) = −3

Exs: 17 + 18 = 35

−17 − 18 = −35

−17 + 18 = +1 = 1

17 − 18 = −1

18 + 17 = 35

18 (−) 17 = 1

18 (−) 17 = 1

Ex 234 + 79 = 313

−146 − 238 = −384

46 − 128 = −82

−79 + 115 = 36

H.W 2379 + 467 =

−7301 − 58012 =

−34201 + 5832 =

−153 + 392 =

234 + 79 = 313

238 + 146 = 384

128 (−) 46 = 82

115 (−) 79 = 36

Ans 313
−384
−82
36

Ex 1) 3196 − 528 = 2668

2) 31532 − 4369 = ____

Sol ① 3196 (−) 528 = 2668

② 31532 (−) 4369 = 27163

Ans 2668

Ans 27164
27963

27163 ✓

Ex −347 + 168 = −179

Sol

Ex −789 − 1369 = −2158

Sol

347 (−) 168 = 179

347 → 200 (147), 200 → 168 (32): 147 + 32

1369 + 789 = 2158

→ **23 + 59 − 32 − 94 = ____**

= 82 − 126

= −44

94 + 32 = 126

59 + 23 = 82

126 (−) 82 = 44

Ex 57 − 123 + 248 − 39 = ____

= 305 − 162

= 143

H.W → ① 247 + 72 − 138 − 59 = ____

② 168 − 79 + 234 − 349 = ____

③ 1238 − 1784 + 342 = ____

248 + 57 = 305

123 + 39 = 162

305 (−) 162 = 143

Multiplication of integers

Rule: + × + = +

− × − = +

+ × − = −

− × + = −

Ex: 4 × 5 = 20

−4 × −5 = 20

4 × −5 = −20

−4 × 5 = −20

Ex: 6 × 7 = 42

−6 × −7 = 42

6 × −7 = −42

−6 × 7 = −42

Exs: 7 × 12 =

−3 × −8 =

−13 × 15 =

17 × −8 =

Ans 84

Ans 24
−195
−136

Ex −12 × −143 = +1716

−96 × 58 = −5568

Ans 1716 (1616 ✗)

Ans −5568

5518 ✗

143 × 12 = 1716

96 × 58: 768, 4800, 5568

Divisions

Rule +/+ = +

−/− = +

+/− = −

−/+ = −

Exs 1) $\frac{2478}{2} = 1239$

2) $-2133/-3 = +711$

3) $101010/-2 = -50505$

4) $-\frac{5328}{4} = -1332$

Ex $37105/-5 = -7421$

H.W Additions

$5 + 8 =$

$-7 - 12 =$

$-13 + 18 =$

$-18 + 7 =$

Multiplications

$5 \times 8 =$

$-7 \times -12 =$

$-13 \times 18 =$

-18×7

Divisions

$\frac{2478}{2} =$

$-30531/-3 =$

$-\frac{46028}{4} =$

$36105/-5 =$