

Operations on Whole Numbers Ex 4.1 Q3

Answer:

: 99 + 1 = 100

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98 + 2 = 100
97 + 3 = 100
and
96 + 4 = 100
(1 + 1999) + (2 + 1998) + (3 + 1997) + (4 + 1996)
  = 2000 + 2000 + 2000 + 2000
  = 8000
(v) 10 + 11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20
: 10 + 20 = 30
1 + 9 = 10
2 + 8 = 10
3 + 7 = 10
and
4 + 6 = 10
: (10 + 20) + (11 + 19) + (12 + 18) + (13 + 17) + (14 + 16) + 15
  = 30 + 30 + 30 + 30 + 30 + 15
  = 150 + 15
   = 165
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Operations on Whole Numbers Ex 4.1 Q4

Answer:

- (i) FALSE (3 + 5 = 8; 8 is an even number.)
- (ii) TRUE (3 + 5 = 8; 8 is an even number.)
- (iii) TRUE (2 + 4 = 6; 6 is an even number.)
- (iv) FALSE (2 + 4 = 6; 6 is an even number.)
- (v) TRUE (2 + 3 = 5; 5 is an odd number.)
- (vi) FALSE (3 + 2 = 5; 5 is not an even number.)
- (vii) FALSE [The whole number set is $\{0, 1, 2, 3, 4, \ldots\}$, whereas the natural number set is $\{1, 2, 3, 4, \ldots\}$.]
- $(\text{viii}) \ \ \text{TRUE} \ [\text{The whole number set is } \{0,\,1,\,2,\,3,\,4,\ldots), \ \text{whereas the natural number set is } \{1,\,2,\,3,\,4,\ldots).]$
- (ix) TRUE [That number is zero.]
- (x) FALSE
- (xi) FALSE
- (xii) TRUE

******* END ******