

V1 — Mathematics Assignment No-03. Whole Numbers.

Q1. If $a=15$, $b=16$, $c=17$

Verify the following properties for addition and multiplication

- (i) closure property
- (ii) Commutative property
- (iii) Associative property
- (iv) Distributive property.

Q2. Are the above properties true for subtraction? If the answer is no then verify by taking any example of your choice.

Q3. Verify and state the property

(i) $2-3 \neq 3-2$

(ii) $2-(3-4) \neq (2-3)-4$

(iii) $(+2) \times (-3+4) = (+2) \times (-3) + (+2) \times 4$

(iv) $102 \times 70 = 70 \times 102$

ANSWERS:-

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(Q2) No

(Q3) (i) Commutative prop of Subtraction does not hold

(ii) Associative " " holds

(iii) Distributive " " holds

(iv) Commutative property of multiplication holds.

Q4. Fill the gap to make the following statements true.

(i) $395 + 602 = 602 + \dots$

(ii) $475 + 1325 = 1325 + \dots$

(iii) $47 + (52 + 93) = (47 + \dots) + 93$

(iv) $37 \times (45 + 27) = (37 \times \dots) + (37 \times \dots)$

(v) $12345 + 0 = \dots$

(vi) $5672 \times 1 = \dots$

Q5. Replace * by the correct digit in each of the following

(i)

$$\begin{array}{r} 917 \\ - *5* \\ \hline 5*8 \end{array}$$

(ii)

$$\begin{array}{r} 6173 \\ + *2*4 \\ \hline 7*0* \end{array}$$

Q6. Add 5, 8, 10 by grouping them in as many ways as you can. Give the property you use at each step.

Q7. Add the following numbers and check by reversing the order of addends.

(i) $2345 + 1245$ (ii) $3757 + 1204$

ANSWERS:-

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(Q4) (i) 395	(v) 0	(Q5) (i) 917	(ii) 6173	(Q7) (i) 3590
(ii) 475	(vi) 5672	$\begin{array}{r} 917 \\ - 359 \\ \hline 558 \end{array}$	$\begin{array}{r} 6173 \\ + 1234 \\ \hline 7407 \end{array}$	(ii) 4961
(iii) 52		(ii) 3757		
(iv) 45, 27				

Q8. Perform the following subtractions. check your result by corresponding additions

(i) $5294 - 1024$ (ii) $7809 - 1567$

Q9. Arun opened an account in a bank by depositing Rs 25000. Next day he deposited Rs 1274 (cheque) and the next day he withdraws Rs 5000. Find his balance in the bank.

Q10. Find the whole number represented by x in the following statements

(i) $x + 4 = 9$

(ii) $x - 2 = 11$

(iii) $x + 2 = 20$

(iv) $2x - 5 = 9$

Q11 Find the product in a easier way

(i) $4 \times 225 \times 1992$ (ii) $2757 \times 50 \times 9 \times 2$

Q12 Multiply by using Distributive property.

(i) $968 \times 73 + 968 \times 27$

(ii) $454 \times 25 + 454 \times 75$

ANSWERS:-

(Q8) (i) 4270 (ii) 6242	(Q10) (i) 5 (ii) 13 (iii) 18	(iv) 7 (Q11) (i) 1792800 (ii) 2481300	(Q12) (i) 96800 (ii) 45400
(Q9) Rs 21274			