



1. Which of the following are true?

a) $16+10=10+16$

b) $10-4=4-10$

c) $9 \times 16 = 16 \times 9$

d) $4 \div 9 = 9 \div 4$

(i) {b,d,a} (ii) {a,c} (iii) {b,a} (iv) {b,c,a} (v) {d,c}

2. Which of the following are true?

a) $19+(15+3)=(19+15)+3$

b) $3 \div (13 \div 19) = (3 \div 13) \div 19$

c) $15-(3-13)=(15-3)-13$

d) $13 \times (19 \times 15) = (13 \times 19) \times 15$

(i) {a,d} (ii) {c,d} (iii) {b,a} (iv) {b,c,a} (v) {b,d,a}

3. Which of the following are true?

a) $9-(19 \times 17) = (9-19) \times (9-17)$

b) $17 \times (16+9) = (17 \times 16) + (17 \times 9)$

c) $16 \times (9-19) = (16 \times 9) - (16 \times 19)$

d) $19 \div (17+16) = (19 \div 17) + (19 \div 16)$

(i) {a,b} (ii) {d,c} (iii) {b,c} (iv) {a,c,b} (v) {a,d,b}

4. Which of the following are true?

a) $14-18=18-14$

b) $6+14=14+6$

c) $18 \div 3 = 3 \div 18$

d) $3 \times 6 = 6 \times 3$

(i) {a,c,b} (ii) {a,d,b} (iii) {b,d} (iv) {a,b} (v) {c,d}

5. Which of the following are true?

a) $7 \times (17 \times 11) = (7 \times 17) \times 11$

b) $17+(11+4) = (17+11)+4$

c) $4 \div (7 \div 17) = (4 \div 7) \div 17$

d) $11-(4-7) = (11-4)-7$

(i) {c,a} (ii) {a,b} (iii) {d,b} (iv) {c,b,a} (v) {c,d,a}

6. Which of the following are true?

a) $12 \div (7+5) = (12 \div 7) + (12 \div 5)$

b) $7 \times (5+9) = (7 \times 5) + (7 \times 9)$

c) $9 - (12 \times 7) = (9 - 12) \times (9 - 7)$

d) $5 \times (9 - 12) = (5 \times 9) - (5 \times 12)$

(i) {a,c,b} (ii) {a,d,b} (iii) {c,d} (iv) {b,d} (v) {a,b}

7. Which of the following are true?

a) whole numbers are closed under division

b) whole numbers are closed under addition

c) whole numbers are closed under multiplication

d) whole numbers are closed under subtraction

(i) {d,c} (ii) {b,c} (iii) {a,b} (iv) {a,d,b} (v) {a,c,b}

8. Which of the following are true?

a) integers are closed under addition

b) integers are closed under subtraction

c) integers are closed under division

d) integers are closed under multiplication

(i) {c,b} (ii) {c,d} (iii) {a,b,d} (iv) {c,a,b} (v) {c,a}

Assignment Key

1) (ii)

2) (i)

3) (iii)

4) (iii)

5) (ii)

6) (iv)

7) (ii)

8) (iii)

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