



1. Which of the following are true?

- a) $17 - 7 = 7 - 17$
 - b) $10 + 17 = 17 + 10$
 - c) $7 \div 11 = 11 \div 7$
 - d) $11 \times 10 = 10 \times 11$
- (i) {a,b} (ii) {a,c,b} (iii) {b,d} (iv) {c,d} (v) {a,d,b}

2. Which of the following are true?

- a) $10 + (8 + 18) = (10 + 8) + 18$
 - b) $18 \div (4 \div 10) = (18 \div 4) \div 10$
 - c) $8 - (18 - 4) = (8 - 18) - 4$
 - d) $4 \times (10 \times 8) = (4 \times 10) \times 8$
- (i) {c,d} (ii) {b,c,a} (iii) {b,a} (iv) {a,d} (v) {b,d,a}

3. Which of the following are true?

- a) $18 - (17 \times 15) = (18 - 17) \times (18 - 15)$
 - b) $17 \div (15 + 10) = (17 \div 15) + (17 \div 10)$
 - c) $15 \times (10 + 18) = (15 \times 10) + (15 \times 18)$
 - d) $10 \times (18 - 17) = (10 \times 18) - (10 \times 17)$
- (i) {b,d} (ii) {a,d,c} (iii) {c,d} (iv) {a,b,c} (v) {a,c}

4. Which of the following are true?

- a) whole numbers are closed under addition
 - b) whole numbers are closed under subtraction
 - c) whole numbers are closed under multiplication
 - d) whole numbers are closed under division
- (i) {a,c} (ii) {b,c,a} (iii) {b,a} (iv) {b,d,a} (v) {d,c}

5. Which of the following are true?

- a) integers are closed under division
 - b) integers are closed under addition
 - c) integers are closed under subtraction
 - d) integers are closed under multiplication
- (i) {b,c,d} (ii) {a,c} (iii) {a,b} (iv) {a,d} (v) {a,b,c}

Assignment Key

1) (iii)

2) (iv)

3) (iii)

4) (i)

5) (i)