



1. Which of the following are true?

- a) $4 \div 9 = 9 \div 4$
- b) $9 \times 10 = 10 \times 9$
- c) $10 + 5 = 5 + 10$
- d) $5 - 4 = 4 - 5$

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

2. Which of the following are true?

- a) $3 - (5 - 16) = (3 - 5) - 16$
- b) $6 + (3 + 5) = (6 + 3) + 5$
- c) $16 \times (6 \times 3) = (16 \times 6) \times 3$
- d) $5 \div (16 \div 6) = (5 \div 16) \div 6$

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

3. Which of the following are true?

- a) $3 \times (18 + 6) = (3 \times 18) + (3 \times 6)$
- b) $6 - (12 \times 3) = (6 - 12) \times (6 - 3)$
- c) $12 \div (3 + 18) = (12 \div 3) + (12 \div 18)$
- d) $18 \times (6 - 12) = (18 \times 6) - (18 \times 12)$

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

4. Which of the following are true?

- a) $6 \div 16 = 16 \div 6$
- b) $3 + 9 = 9 + 3$
- c) $9 - 6 = 6 - 9$
- d) $16 \times 3 = 3 \times 16$

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

5. Which of the following are true?

- a) $17 - (14 - 12) = (17 - 14) - 12$
- b) $12 \times (4 \times 17) = (12 \times 4) \times 17$
- c) $4 + (17 + 14) = (4 + 17) + 14$
- d) $14 \div (12 \div 4) = (14 \div 12) \div 4$

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

6. Which of the following are true?

a) $3 - (8 \times 17) = (3 - 8) \times (3 - 17)$

b) $8 \div (17 + 6) = (8 \div 17) + (8 \div 6)$

c) $6 \times (3 - 8) = (6 \times 3) - (6 \times 8)$

d) $17 \times (6 + 3) = (17 \times 6) + (17 \times 3)$

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

7. Which of the following are true?

a) integers are closed under division

b) integers are closed under subtraction

c) integers are closed under addition

d) integers are closed under multiplication

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

Assignment Key

1) (iv)

2) (ii)

3) (i)

4) (i)

5) (iii)

6) (ii)

7) (v)

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