



1. Which of the following are true?

- a) $8 \times 14 = 14 \times 8$
- b) $11 \div 8 = 8 \div 11$
- c) $19 - 11 = 11 - 19$
- d) $14 + 19 = 19 + 14$

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

2. Which of the following are true?

- a) $3 + (17 + 7) = (3 + 17) + 7$
- b) $17 - (7 - 5) = (17 - 7) - 5$
- c) $5 \times (3 \times 17) = (5 \times 3) \times 17$
- d) $7 \div (5 \div 3) = (7 \div 5) \div 3$

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

3. Which of the following are true?

- a) $8 \times (7 - 17) = (8 \times 7) - (8 \times 17)$
- b) $14 \times (8 + 7) = (14 \times 8) + (14 \times 7)$
- c) $17 \div (14 + 8) = (17 \div 14) + (17 \div 8)$
- d) $7 - (17 \times 14) = (7 - 17) \times (7 - 14)$

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

4. Which of the following are true?

- a) $16 + 4 = 4 + 16$
- b) $12 \div 11 = 11 \div 12$
- c) $11 \times 16 = 16 \times 11$
- d) $4 - 12 = 12 - 4$

(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) $12 + (3 + 16) = (12 + 3) + 16$
- b) $16 \div (9 \div 12) = (16 \div 9) \div 12$
- c) $3 - (16 - 9) = (3 - 16) - 9$
- d) $9 \times (12 \times 3) = (9 \times 12) \times 3$

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

6. Which of the following are true?

- a) $6 - (10 \times 11) = (6 - 10) \times (6 - 11)$
- b) $11 \times (13 + 6) = (11 \times 13) + (11 \times 6)$
- c) $13 \times (6 - 10) = (13 \times 6) - (13 \times 10)$
- d) $10 \div (11 + 13) = (10 \div 11) + (10 \div 13)$

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

7. Which of the following are true?

- a) whole numbers are closed under addition
- b) whole numbers are closed under division
- c) whole numbers are closed under multiplication
- d) whole numbers are closed under subtraction

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

8. Which of the following are true?

- a) integers are closed under addition
- b) integers are closed under multiplication
- c) integers are closed under subtraction
- d) integers are closed under division

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

Assignment Key

1) (iv)

2) (ii)

3) (v)

4) (i)

5) (iv)

6) (i)

7) (iv)

8) (ii)

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