



1. Which of the following are true?

- a) $18 \div 5 = 5 \div 18$
 - b) $5 \times 12 = 12 \times 5$
 - c) $15 - 18 = 18 - 15$
 - d) $12 + 15 = 15 + 12$
- (i) {a,b} (ii) {a,c,b} (iii) {a,d,b} (iv) {b,d} (v) {c,d}

2. Which of the following are true?

- a) $11 \div (18 \div 3) = (11 \div 18) \div 3$
 - b) $4 - (11 - 18) = (4 - 11) - 18$
 - c) $18 \times (3 \times 4) = (18 \times 3) \times 4$
 - d) $3 + (4 + 11) = (3 + 4) + 11$
- (i) {c,d} (ii) {a,d,c} (iii) {a,b,c} (iv) {b,d} (v) {a,c}

3. Which of the following are true?

- a) $19 \times (12 - 17) = (19 \times 12) - (19 \times 17)$
 - b) $8 \times (19 + 12) = (8 \times 19) + (8 \times 12)$
 - c) $12 - (17 \times 8) = (12 - 17) \times (12 - 8)$
 - d) $17 \div (8 + 19) = (17 \div 8) + (17 \div 19)$
- (i) {c,d,a} (ii) {a,b} (iii) {c,b,a} (iv) {d,b} (v) {c,a}

4. Which of the following are true?

- a) $17 \div 11 = 11 \div 17$
 - b) $11 \times 14 = 14 \times 11$
 - c) $14 + 2 = 2 + 14$
 - d) $2 - 17 = 17 - 2$
- (i) {a,c,b} (ii) {a,b} (iii) {a,d,b} (iv) {d,c} (v) {b,c}

5. Which of the following are true?

- a) $4 + (15 + 2) = (4 + 15) + 2$
 - b) $15 - (2 - 19) = (15 - 2) - 19$
 - c) $19 \times (4 \times 15) = (19 \times 4) \times 15$
 - d) $2 \div (19 \div 4) = (2 \div 19) \div 4$
- (i) {d,c} (ii) {a,c} (iii) {b,c,a} (iv) {b,a} (v) {b,d,a}

6. Which of the following are true?

- a) $14 \div (5+11) = (14 \div 5) + (14 \div 11)$
 - b) $11 \times (3-14) = (11 \times 3) - (11 \times 14)$
 - c) $5 \times (11+3) = (5 \times 11) + (5 \times 3)$
 - d) $3 - (14 \times 5) = (3-14) \times (3-5)$
- (i) {a,d,b} (ii) {a,b} (iii) {a,c,b} (iv) {b,c} (v) {d,c}
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7. Which of the following are true?

- a) $10 - 7 = 7 - 10$
 - b) $12 \times 13 = 13 \times 12$
 - c) $7 \div 12 = 12 \div 7$
 - d) $13 + 10 = 10 + 13$
- (i) {a,b} (ii) {a,d,b} (iii) {b,d} (iv) {a,c,b} (v) {c,d}
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8. Which of the following are true?

- a) $11 \times (4 \times 2) = (11 \times 4) \times 2$
 - b) $4 + (2 + 7) = (4 + 2) + 7$
 - c) $2 - (7 - 11) = (2 - 7) - 11$
 - d) $7 \div (11 \div 4) = (7 \div 11) \div 4$
- (i) {c,d,a} (ii) {c,a} (iii) {d,b} (iv) {a,b} (v) {c,b,a}
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9. Which of the following are true?

- a) $3 \times (4+9) = (3 \times 4) + (3 \times 9)$
 - b) $9 - (10 \times 3) = (9-10) \times (9-3)$
 - c) $4 \times (9-10) = (4 \times 9) - (4 \times 10)$
 - d) $10 \div (3+4) = (10 \div 3) + (10 \div 4)$
- (i) {b,c,a} (ii) {a,c} (iii) {b,a} (iv) {d,c} (v) {b,d,a}

Assignment Key

1) (iv)

2) (i)

3) (ii)

4) (v)

5) (ii)

6) (iv)

7) (iii)

8) (iv)

9) (ii)