



1. Which of the following are true?

- a) $19 \times 17 = 17 \times 19$
 - b) $5 \div 19 = 19 \div 5$
 - c) $13 - 5 = 5 - 13$
 - d) $17 + 13 = 13 + 17$
- (i) {a,d} (ii) {b,c,a} (iii) {b,d,a} (iv) {c,d} (v) {b,a}

2. Which of the following are true?

- a) $9 \times (3 \times 19) = (9 \times 3) \times 19$
 - b) $3 + (19 + 10) = (3 + 19) + 10$
 - c) $19 - (10 - 9) = (19 - 10) - 9$
 - d) $10 \div (9 \div 3) = (10 \div 9) \div 3$
- (i) {c,a} (ii) {c,d,a} (iii) {c,b,a} (iv) {d,b} (v) {a,b}

3. Which of the following are true?

- a) $8 \times (7 + 15) = (8 \times 7) + (8 \times 15)$
 - b) $6 \div (8 + 7) = (6 \div 8) + (6 \div 7)$
 - c) $15 - (6 \times 8) = (15 - 6) \times (15 - 8)$
 - d) $7 \times (15 - 6) = (7 \times 15) - (7 \times 6)$
- (i) {b,d,a} (ii) {b,a} (iii) {c,d} (iv) {a,d} (v) {b,c,a}

4. Which of the following are true?

- a) $13 \times 14 = 14 \times 13$
 - b) $18 \div 13 = 13 \div 18$
 - c) $14 + 19 = 19 + 14$
 - d) $19 - 18 = 18 - 19$
- (i) {b,c,a} (ii) {d,c} (iii) {b,d,a} (iv) {a,c} (v) {b,a}

5. Which of the following are true?

- a) $2 + (4 + 5) = (2 + 4) + 5$
 - b) $4 - (5 - 18) = (4 - 5) - 18$
 - c) $18 \times (2 \times 4) = (18 \times 2) \times 4$
 - d) $5 \div (18 \div 2) = (5 \div 18) \div 2$
- (i) {b,c,a} (ii) {d,c} (iii) {a,c} (iv) {b,a} (v) {b,d,a}

6. Which of the following are true?

- a) $15 - (17 \times 11) = (15 - 17) \times (15 - 11)$
 - b) $17 \div (11 + 12) = (17 \div 11) + (17 \div 12)$
 - c) $12 \times (15 - 17) = (12 \times 15) - (12 \times 17)$
 - d) $11 \times (12 + 15) = (11 \times 12) + (11 \times 15)$
- (i) {a,d,c} (ii) {a,b,c} (iii) {a,c} (iv) {b,d} (v) {c,d}
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7. Which of the following are true?

- a) $17 + 8 = 8 + 17$
 - b) $19 \times 17 = 17 \times 19$
 - c) $8 - 2 = 2 - 8$
 - d) $2 \div 19 = 19 \div 2$
- (i) {c,b,a} (ii) {c,a} (iii) {d,b} (iv) {a,b} (v) {c,d,a}
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8. Which of the following are true?

- a) $6 \div (9 \div 10) = (6 \div 9) \div 10$
 - b) $10 + (19 + 6) = (10 + 19) + 6$
 - c) $19 - (6 - 9) = (19 - 6) - 9$
 - d) $9 \times (10 \times 19) = (9 \times 10) \times 19$
- (i) {b,d} (ii) {a,c,b} (iii) {a,b} (iv) {a,d,b} (v) {c,d}
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9. Which of the following are true?

- a) $19 \times (15 + 9) = (19 \times 15) + (19 \times 9)$
 - b) $14 \div (19 + 15) = (14 \div 19) + (14 \div 15)$
 - c) $15 \times (9 - 14) = (15 \times 9) - (15 \times 14)$
 - d) $9 - (14 \times 19) = (9 - 14) \times (9 - 19)$
- (i) {b,c,a} (ii) {b,a} (iii) {a,c} (iv) {d,c} (v) {b,d,a}
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10. Which of the following are true?

- a) $2 - 12 = 12 - 2$
 - b) $7 \times 17 = 17 \times 7$
 - c) $17 + 2 = 2 + 17$
 - d) $12 \div 7 = 7 \div 12$
- (i) {a,d,b} (ii) {b,c} (iii) {d,c} (iv) {a,b} (v) {a,c,b}
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11. Which of the following are true?

- a) $10 \times (4 \times 5) = (10 \times 4) \times 5$
 - b) $3 \div (10 \div 4) = (3 \div 10) \div 4$
 - c) $5 - (3 - 10) = (5 - 3) - 10$
 - d) $4 + (5 + 3) = (4 + 5) + 3$
- (i) {b,c,a} (ii) {a,d} (iii) {b,d,a} (iv) {c,d} (v) {b,a}

12. Which of the following are true?

- a) $2 \times (3 - 19) = (2 \times 3) - (2 \times 19)$
 - b) $3 - (19 \times 18) = (3 - 19) \times (3 - 18)$
 - c) $18 \times (2 + 3) = (18 \times 2) + (18 \times 3)$
 - d) $19 \div (18 + 2) = (19 \div 18) + (19 \div 2)$
- (i) {b,c,a} (ii) {b,d,a} (iii) {d,c} (iv) {a,c} (v) {b,a}
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13. Which of the following are true?

- a) $15 - 6 = 6 - 15$
 - b) $6 \div 9 = 9 \div 6$
 - c) $13 + 15 = 15 + 13$
 - d) $9 \times 13 = 13 \times 9$
- (i) {a,c} (ii) {b,d} (iii) {c,d} (iv) {a,b,c} (v) {a,d,c}
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14. Which of the following are true?

- a) $10 + (17 + 16) = (10 + 17) + 16$
 - b) $12 \times (10 \times 17) = (12 \times 10) \times 17$
 - c) $17 - (16 - 12) = (17 - 16) - 12$
 - d) $16 \div (12 \div 10) = (16 \div 12) \div 10$
- (i) {d,b} (ii) {a,b} (iii) {c,a} (iv) {c,b,a} (v) {c,d,a}
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15. Which of the following are true?

- a) $4 \times (16 - 3) = (4 \times 16) - (4 \times 3)$
 - b) $16 - (3 \times 10) = (16 - 3) \times (16 - 10)$
 - c) $3 \div (10 + 4) = (3 \div 10) + (3 \div 4)$
 - d) $10 \times (4 + 16) = (10 \times 4) + (10 \times 16)$
- (i) {c,d} (ii) {b,a} (iii) {b,c,a} (iv) {a,d} (v) {b,d,a}

Assignment Key

1) (i)	2) (v)	3) (iv)	4) (iv)	5) (iii)	6) (v)
7) (iv)	8) (i)	9) (iii)	10) (ii)	11) (ii)	12) (iv)
13) (iii)	14) (ii)	15) (iv)			