



1. Which of the following are true?

a) $16 - 4 = 4 - 16$

b) $4 \div 15 = 15 \div 4$

c) $2 + 16 = 16 + 2$

d) $15 \times 2 = 2 \times 15$

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

2. Which of the following are true?

a) $18 \times (17 \times 19) = (18 \times 17) \times 19$

b) $2 \div (18 \div 17) = (2 \div 18) \div 17$

c) $17 + (19 + 2) = (17 + 19) + 2$

d) $19 - (2 - 18) = (19 - 2) - 18$

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

3. Which of the following are true?

a) $2 \div (16 + 19) = (2 \div 16) + (2 \div 19)$

b) $16 \times (19 + 14) = (16 \times 19) + (16 \times 14)$

c) $19 \times (14 - 2) = (19 \times 14) - (19 \times 2)$

d) $14 - (2 \times 16) = (14 - 2) \times (14 - 16)$

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

4. Which of the following are true?

a) $15 \div 2 = 2 \div 15$

b) $16 - 15 = 15 - 16$

c) $2 \times 18 = 18 \times 2$

d) $18 + 16 = 16 + 18$

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

5. Which of the following are true?

a) $4 - (10 - 7) = (4 - 10) - 7$

b) $7 \times (12 \times 4) = (7 \times 12) \times 4$

c) $12 + (4 + 10) = (12 + 4) + 10$

d) $10 \div (7 \div 12) = (10 \div 7) \div 12$

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

6. Which of the following are true?

- a) $17 - (12 \times 13) = (17 - 12) \times (17 - 13)$
- b) $12 \div (13 + 15) = (12 \div 13) + (12 \div 15)$
- c) $15 \times (17 - 12) = (15 \times 17) - (15 \times 12)$
- d) $13 \times (15 + 17) = (13 \times 15) + (13 \times 17)$

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

7. Which of the following are true?

- a) $17 \div 3 = 3 \div 17$
- b) $6 - 17 = 17 - 6$
- c) $7 + 6 = 6 + 7$
- d) $3 \times 7 = 7 \times 3$

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

8. Which of the following are true?

- a) $3 \div (6 \div 19) = (3 \div 6) \div 19$
- b) $15 - (3 - 6) = (15 - 3) - 6$
- c) $6 \times (19 \times 15) = (6 \times 19) \times 15$
- d) $19 + (15 + 3) = (19 + 15) + 3$

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

9. Which of the following are true?

- a) $12 \times (16 + 18) = (12 \times 16) + (12 \times 18)$
- b) $18 - (9 \times 12) = (18 - 9) \times (18 - 12)$
- c) $9 \div (12 + 16) = (9 \div 12) + (9 \div 16)$
- d) $16 \times (18 - 9) = (16 \times 18) - (16 \times 9)$

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

10. Which of the following are true?

- a) $17 \times 12 = 12 \times 17$
- b) $8 - 9 = 9 - 8$
- c) $12 + 8 = 8 + 12$
- d) $9 \div 17 = 17 \div 9$

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

11. Which of the following are true?

- a) $6 \div (12 \div 8) = (6 \div 12) \div 8$
- b) $12 \times (8 \times 7) = (12 \times 8) \times 7$
- c) $7 - (6 - 12) = (7 - 6) - 12$
- d) $8 + (7 + 6) = (8 + 7) + 6$

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

12. Which of the following are true?

- a) $18 \div (3+10) = (18 \div 3) + (18 \div 10)$
- b) $10 \times (17-18) = (10 \times 17) - (10 \times 18)$
- c) $3 \times (10+17) = (3 \times 10) + (3 \times 17)$
- d) $17 - (18 \times 3) = (17-18) \times (17-3)$

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

13. Which of the following are true?

- a) $5 \times 14 = 14 \times 5$
- b) $18 - 4 = 4 - 18$
- c) $4 \div 5 = 5 \div 4$
- d) $14 + 18 = 18 + 14$

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

14. Which of the following are true?

- a) $8 - (10 - 13) = (8 - 10) - 13$
- b) $13 \times (6 \times 8) = (13 \times 6) \times 8$
- c) $6 + (8 + 10) = (6 + 8) + 10$
- d) $10 \div (13 \div 6) = (10 \div 13) \div 6$

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

15. Which of the following are true?

- a) $8 \times (5+4) = (8 \times 5) + (8 \times 4)$
- b) $7 \div (8+5) = (7 \div 8) + (7 \div 5)$
- c) $4 - (7 \times 8) = (4-7) \times (4-8)$
- d) $5 \times (4-7) = (5 \times 4) - (5 \times 7)$

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

Assignment Key

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