



1. Which of the following are true?

- a) $2 - 19 = 19 - 2$
- b) $18 + 2 = 2 + 18$
- c) $19 \div 11 = 11 \div 19$
- d) $11 \times 18 = 18 \times 11$

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

2. Which of the following are true?

- a) $17 \times (14 \times 4) = (17 \times 14) \times 4$
- b) $2 \div (17 \div 14) = (2 \div 17) \div 14$
- c) $4 - (2 - 17) = (4 - 2) - 17$
- d) $14 + (4 + 2) = (14 + 4) + 2$

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

3. Which of the following are true?

- a) $8 \div (12 + 2) = (8 \div 12) + (8 \div 2)$
- b) $12 \times (2 + 6) = (12 \times 2) + (12 \times 6)$
- c) $2 \times (6 - 8) = (2 \times 6) - (2 \times 8)$
- d) $6 - (8 \times 12) = (6 - 8) \times (6 - 12)$

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

4. Which of the following are true?

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

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

5. Which of the following are true?

- a) $14 + 9 = 9 + 14$
- b) $13 \times 14 = 14 \times 13$
- c) $6 \div 13 = 13 \div 6$
- d) $9 - 6 = 6 - 9$

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

6. Which of the following are true?

a) $15 - (19 - 18) = (15 - 19) - 18$

b) $19 \div (18 \div 3) = (19 \div 18) \div 3$

c) $3 + (15 + 19) = (3 + 15) + 19$

d) $18 \times (3 \times 15) = (18 \times 3) \times 15$

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

7. Which of the following are true?

a) $3 \times (7 + 10) = (3 \times 7) + (3 \times 10)$

b) $7 \times (10 - 9) = (7 \times 10) - (7 \times 9)$

c) $9 \div (3 + 7) = (9 \div 3) + (9 \div 7)$

d) $10 - (9 \times 3) = (10 - 9) \times (10 - 3)$

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

Assignment Key

1) (ii)

2) (v)

3) (ii)

4) (i)

5) (i)

6) (ii)

7) (v)

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