



1. Which of the following are true?

- a)  $4 \div 8 = 8 \div 4$
- b)  $3 + 9 = 9 + 3$
- c)  $8 \times 3 = 3 \times 8$
- d)  $9 - 4 = 4 - 9$

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

2. Which of the following are true?

- a)  $3 + (8 + 9) = (3 + 8) + 9$
- b)  $9 \div (11 \div 3) = (9 \div 11) \div 3$
- c)  $11 \times (3 \times 8) = (11 \times 3) \times 8$
- d)  $8 - (9 - 11) = (8 - 9) - 11$

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

3. Which of the following are true?

- a)  $2 \times (13 + 14) = (2 \times 13) + (2 \times 14)$
- b)  $13 \times (14 - 12) = (13 \times 14) - (13 \times 12)$
- c)  $12 \div (2 + 13) = (12 \div 2) + (12 \div 13)$
- d)  $14 - (12 \times 2) = (14 - 12) \times (14 - 2)$

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

4. Which of the following are true?

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

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

5. Which of the following are true?

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

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

## Assignment Key

1) (i)

2) (ii)

3) (iv)

4) (v)

5) (i)

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