EduSahara™ Learning Center Assignment

Grade   : Class VIII, ICSE
Chapter   : Numbers
Name   : Properties of Integers
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1. Which of the following are true?

    a) $15 \div 14 = 14 \div 15$

    b) $4 + 3 = 3 + 4$

    c) $14 \times 4 = 4 \times 14$

    d) $3 - 15 = 15 - 3$

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

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2. Which of the following are true?

    a) $6 + (17 + 5) = (6 + 17) + 5$

    b) $5 \div (19 \div 6) = (5 \div 19) \div 6$

    c) $19 \times (6 \times 17) = (19 \times 6) \times 17$

    d) $17 - (5 - 19) = (17 - 5) - 19$

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

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3. Which of the following are true?

    a) $17 \times (11 + 16) = (17 \times 11) + (17 \times 16)$

    b) $16 - (8 \times 17) = (16 - 8) \times (16 - 17)$

    c) $11 \times (16 - 8) = (11 \times 16) - (11 \times 8)$

    d) $8 \div (17 + 11) = (8 \div 17) + (8 \div 11)$

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

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4. Which of the following are true?

    a) $16 \times 6 = 6 \times 16$

    b) $6 + 8 = 8 + 6$

    c) $8 - 19 = 19 - 8$

    d) $19 \div 16 = 16 \div 19$

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

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5. Which of the following are true?

    a) $8 \times (9 \times 17) = (8 \times 9) \times 17$

    b) $3 \div (8 \div 9) = (3 \div 8) \div 9$

   c) $17 - (3 - 8) = (17 - 3) - 8$

   d) $9 + (17 + 3) = (9 + 17) + 3$

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

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6. Which of the following are true?

   a) $10 \times (4 + 17) = (10 \times 4) + (10 \times 17)$

   b) $17 - (6 \times 10) = (17 - 6) \times (17 - 10)$

   c) $4 \times (17 - 6) = (4 \times 17) - (4 \times 6)$

   d) $6 \div (10 + 4) = (6 \div 10) + (6 \div 4)$

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

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7. Which of the following are true?

   a) Addition is closed under whole numbers
   b) Subtraction is closed under whole numbers
   c) Multiplication is closed under whole numbers
   d) Division is closed under whole numbers

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

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8. Which of the following are true?

   a) Addition is closed under integers
   b) Division is closed under integers
   c) Multiplication is closed under integers
   d) Subtraction is closed under integers

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

Assignment Key

1) (i)
2) (iv)
3) (i)
4) (i)
5) (ii)
6) (iii)
7) (ii)
8) (iii)