MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

INTEGERS

All Questions

1. Find each of the following products: $(-115) \times 8$ (ii) $9 \times (-3) \times (-6)$ (-12) $\times (-13) \times (-5)$

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2. Evaluate each of the following products: $(-1) \times (-2) \times (-3) \times (-4) \times (-5)$ $\times (-6) \times (-9) \times (-12)$ (-3)

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3. Evaluate each of the following products:

$(-1) \times (-1) \times (-1) \times \ldots 50 \; times$

$(-1) \times (-1) \times (-1) \times \ldots 151 \; times$

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4. Find the value of $15625 \times (-2) + (-15625) \times 98$

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5. Determine each of the following products: (i) 12×7 (ii) $(- 15) \times 8$

6. Determine each of the following products: (i) $(- 25) \times (- 9)$ (ii) $125 \times (- 8)$

7. Find each of the following products: (i) $3 \times (- 8) \times 5$ (ii) $9 \times (- 3) \times (- 6)$

8. Find each of the following products:

(i) $(- 2) \times 36 \times (- 5)$

(ii) $(- 2) \times (- 4) \times (- 6) \times (- 8)$

9. Find the value of:

(i) $1487 \times 327 + (- 487) \times 327$

(ii) $28945 \times 99 - (- 28945)$

10. Complete the following multiplication table: Is the multiplication table symmetrical about the diagonal joining the upper left corner to the lower right corner?

11. Determine the integer whose product with -1 is (i) 58 (ii) 0 (iii) -225

12. What will be the sign of the product if we multiply together (i) 8 negative integers and 1 positive integers? (ii) 21 negative integers and 3 positive integers? (iii) 199 negative integers and 10 positive integers?

13. State which is greater: (i) $(8+9) \times 10$ and $8+9 \times 10$ (ii) $(8-9) \times 10$ and $8-9 \times 10$ (iii) $\{(-2)-5\} \times (-6)$ and

$$(-2) - 5 \times (-6)$$

14. (i) If $a \times (-1) = -30$, is the integer a positive or negative? (ii) If $a \times (-1) = 30$, is the integer a positive or negative?

15. Verify the following: (i) $19 \times \{7 + (-3)\} = 19 \times 7 + 19 \times (-3)$ (ii) $(-23)\{(-5) + (+19)\} = (-23) \times (-5) + (-23) \times (+19)$

16. Which of the following statement are true? (i) The product of a positive and negative integer is negative. (ii) The product of three negative integers is a negative integer. (iii) Of the two integers, if one is negative, then their product must be positive. (iv) For all non-zero integers a and b, $a \times b$ is always greater than either a or b. (v) The product of a negative and a positive integer may be zero. (vi) There does not exist an integer b such that for $a > 1$, $a \times b = b \times a = b$.

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17. Divide: (i) 84 by 7   (ii) -91 by 13 (iii) -98 by -14   (iv) 324 by -27

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18. Find the quotient in each of the following: (i) $(- 1728) \div 12$ (ii) $(- 15625) \div (- 125)$ (iii) $30000 \div (- 100)$

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19. Find the value of (i) $[32 + 2 \times 17 + (- 6)] \div 15$ (ii) $|| - 17| + 17| \div || - 25| - 42|$

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20. Simplify : $\{36 \div (- 9)\} \div \{(- 24) \div 6\}$

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21. Divide: (i) 102 by 17   (ii) -85 by 5

22. Divide:

(i) -161 by -23   (ii) 76 by -19

23. Divide: 17654 by -17654   (ii) (-729) by (-27)

24. Divide: 21590 by -10   (ii) 0 by -135

25. Fill in the blanks: (i) $296 \div \ldots = -148$ (ii) $-88 \div \ldots = 11$

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26. Fill in the blanks: (i) $84 \div \ldots = 12$ (ii) $\ldots \div -5 = 25$

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27. Fill in the blanks: (i) $\ldots \div 156 = -2$ (ii) $\ldots \div 567 = -1$

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28. Which of the following statement are true? $0 \div 4 = 0$ (ii) $0 \div (-7) = 0$

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29. Which of the following statement are true? $-15 \div 0 = 0$ (ii)

$0 \div 0 = 0$

30. Which of the following statement are true?

$(-8) \div (-1) = -8$ (ii) $-8 \div (-2) = 4$

31. Simplify: $24 - 4 \div 2 \times 3$

32. Simplify: $(-20) + (-8) \div (-2) \times 3$

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33. Simplify: $(-5) - (-48) \div (-16) + (-2) \times 6$

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34. Find the value of $36 \div 6 + 3\ 2.\ 24 + 15 \div 3$

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35. Find the value of $120 - 20 \div 4\ 2.\ 32 - (3 \times 5) + 4$

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36. Find the value of $3 - (5 - 6 \div 3)$ 2. $21 - 12 \div 3 \times 2$

37. Find the value of $16 + 8 \div 4 - 2 \times 3$ 2. $28 - 5 \times 6 + 2$

38. Find the value of $(-20) \times (-1) + (-28) \div 7$ $(-2) + (-8) \div (-4)$

39. Find the value of $(-15) + 4 \div (5 - 3)$ 2. $(-40) \times (-1) + (-28) \div 7$

40. Find the value of $(-3) + (-8) \div (-4) - 2 \times (-2)$

$(-3) \times (-4) \div (-2) + (-1)$

41. Simplify : $27 - [5 + \{28 - (29 - 7)\}]$

42. Simplify : $48 - \left[18 - \left\{16 - \left(5 - \overline{4 - 1}\right)\right\}\right]$

43. Simplify: $222 - \left[\dfrac{1}{3}\{42 + (56 - (8 + 9))\} + 108\right]$

44. Simplify: $39 - [23 - \{29 - 17 - 9 - 3)\}]$

45. Simplify: $118 - [121 \div (11 \times 11) - (- 4) - \{3 - 9 - 2\}]$

46. Simplify each of the following: $3 - (5 - 6 \div 3)$ 2. $-25 + 14 \div (5 - 3)$

47. Simplify each of the following:

$$25 - \frac{1}{2}\{5 + 4 - (3 + 2 - 1 + 3)\}$$

$$27 - [38 - \{46 - (15 - 13 - 2)\}]$$

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48. Simplify each of the following:

$$36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}]$$

$$45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}]$$

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49. Simplify each of the following:

$$23 - [23 - \{23 - (23 - 23 - 23)\}]$$

$$2550 - [510 - \{270 - (90 - 80 + 70)\}]$$

50. Simplify each of the following:

$$4 + \frac{1}{5}[\{-10 \times (25 - 13 - 3)\} \div (-5)]$$

$$22 - \frac{1}{4}\{-5 - (-48) \div (-16)\}$$

51. Simplify each of the following:

$$633\{-2 - 8 - 3\} \div [3\{5 + (-2)(-1)\}]$$

$$[29 - (-2)\{6 - (7 - 3)\}] \div [3 \times \{5 + (-3) \times (-2)\}]$$

52. Using brackets, write a mathematical expression for each of the following:

(1) Nine multiplied by the sum of two and five.

(2) Twelve divided by the sum of one and three.

(3) Twenty divided by the difference of seven and two.

(4) Eight subtracted from the product of two and three.

(5) Forty divided by one more than the sum of nine and ten.

(6.) Two multiplied by one less than the difference of nineteen and six.