Multi-digit multiplication study guide

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Find the products.       8 3                                   3 4          x  6 0                                x 2 7      -------------                          ------------- |

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| Which 2 factors have a product of 495?   1. 15 x 33 2. 20 x 30 3. 15 x 30 4. 15 x 25 |

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| Which product is between 650 and 700?   1. 38 x 12 2. 46 x 12 3. 50 x 15 4. 45 x 15 |

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| 61 x 28 is closest to   1. 1,800 2. 1,700 3. 170 4. 89 |

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| Complete the partial products for the broken-up array. Then solve for the total array.   |  |  |  | | --- | --- | --- | | x | 70 | 4 | | 30 |  |  | | 8 |  |  |                                                                        74 x 38 =  \_\_\_\_\_\_\_\_\_\_\_\_ |

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| Which statement is true?   1. 3 x 3 = 6 + 9 2. 7 x 4 = 14 + 3 3. 5 x 3 = 11 + 7 4. 6 x 8 = 24 + 24 |

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| Paul bought six boxes of chocolate candy and four boxes of caramel candy. If each box has nine pieces inside it, how much candy did he have total?  Show work: |

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| Complete the multiplication sentences so that the product is the same as the first one.  3 x 800 = 30 x \_\_\_\_\_\_\_\_.                 90 x 40 = 9 x \_\_\_\_\_\_\_\_. |

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| Estimate the products.        5 3                                 8 1            x    9                               x    6       --------------                      -------------- |

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| Wendy earned 5 points for each bag of cans she recycled. If she had 11 bags, but didn’t recycle of 2 of them, how many points would she have earned?  Show work: |

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| Which is the only expression that is NOT represented by the diagram?   |  |  |  | | --- | --- | --- | | x | 20 | 5 | | 60 |  |  | | 8 |  |  |  1. 68 x 25 2. (60 + 8) x (20 + 5) 3. 68 + 25 4. 1200 + 300 + 160 + 40 |