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

Resource Page

NBT.7: Adding, Subtracting, Multiplying, and Dividing Decimals

|  |
| --- |
| Adding and Subtracting Decimals |
|  56**.**3 (Line ‘Em Up)+ 3**.**45 | Remember the Chant!Rule 1: **Line ‘Em Up**Rule 2: **Drop It Down**Rule 3: **Fill ‘Em In**Rule 4: **+ or**  |
|  56**.**3 + 3**.**45 (Drop It Down) **.**  |
|  56**.**3**0** + 3**.**45 (Fill ‘Em In) **.**  |
|  56**.**3**0** **+** 3**.**45 (+ or ̶ ) 59**.**75  |
|  |
| Multiplying Decimals With Models |
| 0.7 x 0.3 = 0.21   Shade in 7 columns 0.7 Each column = .1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

  0.3  Shade in 3 rows Each row = .1 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

How many units are filled with both designs?21 units0.7 x 0.3 = 0.21 |
| Multiplying Decimals with Area Models | Multiplying Decimals with Partial Products |
| 1.3 x 2.4 = 3.12

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 2.41.3 |  1.3 x 2.4 = 3.12 10 + 3 260+ 52 312**.**20+4

|  |  |
| --- | --- |
| 200 | 60 |
|  40 | 12 |

Steps:1. Multiply like multiplying with whole numbers2. Count the number of digits to the right of the decimal point in your original factorsThere are 2 digits to the right of the decimal point (1.3 x 2.4) 3. Move the decimal in the product 2 places to the left. 312**.** move decimal 3**.**12 |
|  2.4Decimal point is moved by how many digits are to the right of the decimal in the factors. X 1.3 .12 (.3 x .4) .6**0** (.3 x 2) .4**0** (1 x .4)+ 2.**00** (1 x 2)  3.12 “Fill Em In” with zeros to help line up the numbers |