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| **Standard** | **Items:** |
| **3.OA.01 -** Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5 × 7. | **3.0** 1. Draw a model to find the total number. 8 groups of 32.Write a multiplication sentence to describe the picture of counters above. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **2.0**1. Circle the multiplication sentence that represents the array.

1. **20 x 5 = 4**

 **b. 20 x 4 = 5** **c. 5 x 4 = 20****2. Write a multiplication equation to represent the array below?** **\_\_\_\_\_\_\_ x \_\_\_\_\_\_ = \_\_\_\_\_\_\_**

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**3. Draw a picture to show 4 groups of 7 stars.** |
| **3.OA.02 -** Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8. | 3.0Draw a model to represent this problem.$21÷ 7 = 3$ b. Write a division sentence to describe the picture of  counters. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **2.0**1. Circle the division sentence that represents the array.

1. **4 ÷ 5 = 20**

 **b. 20 ÷ 5 = 4** **c. 5 ÷ 4 = 20**2. Write a division sentence to match the picture of the apples. \_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_3. Draw a picture below to solve 35 ÷ 5 |
| **3.OA.05 -** Apply properties of operations as strategies to multiply and divide. Examples: If 6 × 4 = 24 is known, then 4 × 6 = 24 is also known. (Commutative property of multiplication.) 3 × 5 × 2 can be found by 3 × 5 = 15, then 15 × 2 = 30, or by 5 × 2 = 10, then 3 × 10 = 30. (Associative property of multiplication.) Knowing that 8 × 5 = 40 and 8 × 2 = 16, one can find 8 × 7 as 8 × (5 + 2) = (8 × 5) + (8 × 2) = 40 + 16 = 56. (Distributive property.) | Separate list for them of properties. *Not* on the test.*See properties posters in Rubicon Math YLC CMBA Trimester 2, as a support for these tasks.*Word Bank:Commutative Property of MultiplicationAssociative Property of MultiplicationDistributive PropertyZero Property of MultiplicationIdentity Property of MultiplicationInverse Operation**3.0**a. Use one of the properties of operations to show how this equation could have been solved.6 X 4 = 24b. Use one of the properties of operations to show how this equation could have been solved.35 ÷ 7 = 5 |
| **2.0**1. Which shows the correct way to solve for 4 X 12?1. (2 x 6) + (2 x 6)
2. (4 x 10) + (4 x 2)
3. (4 x 6) + (2 x 6)
4. (4 x 8) + (4 x 3)

2. Draw a line to connect equal expressions or values: 4 x 6 (6 x 2) + (6 x 1) 6 x 3 (8 x 5) + (8 x 2) 8 x 7 6 x 4 7 x 4 7 x 2 x 23. Fill in the missing factors.6 x 7 = ( \_\_\_\_ x 7 ) + ( \_\_\_ x 7 )4. Find the unknown factor. Use the Commutative Property.\_\_\_ X 3 = 303 X \_\_\_ = 30 |
| **3.NF.01** - Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned **into** b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b. | **3.0**1. **What unit fraction is shaded gray?**

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$ $**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****b. Write the fraction of shaded boxes.**

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| **2.0** **a. How many equal parts are below?** **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **b. Write the unit fraction for the shaded part below.** **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **c. Shade two parts. Write the fraction of the shaded parts.**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  |