3.OA.A

Represent and solve problems involving multiplication and division.

1. There are 3 bags with 9 blocks in each bag. How many blocks are there in all?

2. A penny has a mass of 3 grams. What is the mass, in grams, of 4 pennies?

3. What unknown number makes this equation true? 7 x 5 = □

4. Caroline, Brian, and Marta share a box of chocolates. They each get the same amount. Circle the chocolates below to show 3 groups of 4. Then, write a multiplication equation to represent the picture.

 

 Equation:

5. Chelsea collects butterfly stickers. The picture show how she placed them in her book. Write aa division equation to show how she equally groups her stickers.



There are \_\_\_\_\_\_\_\_\_ butterflies in each row.

\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_

6. There are 25 blue balloons and 15 red balloons at a party. Five children are given an equal number of each color balloon. How many blue and red balloons does each child get?

7. Eighteen cups are equally packed into 6 boxes. Two boxes of cups break. How many cups are unbroken?

**Teacher Material**

3.OA.A

Represent and solve problems involving multiplication and division.

| **Question** | **Claim** | **Key/Suggested Rubric** |
| --- | --- | --- |
| 1[[1]](#footnote-1) | 1 | **1 point:** 27 blocks |
| 21 | 1 | **1 point:** 12 grams |
| 31 | 1 | **1 point:** 35 |
| 4[[2]](#footnote-2) | 4 | **2 points:** Student circles 3 groups of 4 (in any way) AND writes 3 x 4 = 12 OR 4 x 3 = 1212 black and white stripped circles that are meant to respresent chocolates. Three blue circles are drawn with three "chocolates" inside each circle.**1 point:** Student circles 3 groups of 4 (in any way) OR writes 3 x 4 = 12 OR 4 x 3 = 12 |
| 5[[3]](#footnote-3) | 4 | **1 point:** 3, 15 ÷ 3 = 5 or 15 ÷ 5 = 3 |
| 6[[4]](#footnote-4) | 2 | **1 point:** 25 ÷ 5 = 5 blue balloons15 ÷ 5 = 3 red balloonsTogether they get 8 blue and red balloons. |
| 74 | 2 | **1 point:** 18 ÷ 6 = 3 cups in a box2 x 3 = 6 cups are broken18 – 6 = 12 cups are unbroken |

1. From Smarterbalanced.org. Grade 3, Claim 1, Target A Item Specifications. Internet. Available from <http://www.smarterbalanced.org/smarter-balanced-assessments/>; accessed 11/2015. [↑](#footnote-ref-1)
2. From EngageNY.org of the New York State Education Department. Grade 3 Mathematics Module 1, Topic A, Lesson 1. Internet. Available from <https://www.engageny.org/resource/grade-3-mathematics-module-1-topic-lesson-1>; accessed 11/2015. [↑](#footnote-ref-2)
3. From EngageNY.org of the New York State Education Department. Grade 3 Mathematics Module 1, Topic B, Lesson 4. Internet. Available from <https://www.engageny.org/resource/grade-3-mathematics-module-1-topic-b-lesson-4>; accessed 11/2015. [↑](#footnote-ref-3)
4. From EngageNY.org of the New York State Education Department. Grade 3 Mathematics Module 1, Topic F, Lesson 20. Internet. Available from <https://www.engageny.org/resource/grade-3-mathematics-module-1-topic-f-lesson-20>; accessed 11/2015. [↑](#footnote-ref-4)