**Unit 3 Practice Test Answers**

1. MCC3.OA.8 (DOK 2)

Alexander has 24 stickers and Ethan has 12 stickers. If Alexander and Ethan combine their stickers and divide the pieces equally among a total of 9 people, how many stickers will each person get?

\*Step 1: 24 + 12= 36

\*Step 2: 36 / 9 = 4

Each person will get 4 stickers.

2. MCC3.OA.8 (DOK 3)

Dunwoody Springs Elementary School is having a fundraiser to collect $400 to raise money for cancer. On the first day, they raised $67 dollars. On the second day, they raised 84 dollars. On the third day, they raised 27 dollars. How many more dollars does Dunwoody Springs need to collect to meet their goal?

1. How many more dollars do they need to raise in order to meet their goal?

\*Step 1: 67 + 84 + 27=178

\*Step 2: 400- 178 = 222

 Dunwoody Springs needs to raise 222 more dollars.

 b. Explain how you would estimate to make sure your answer is reasonable.

 \*You could round all of the dollar amounts and add them together (70 + 80

 +30=180). Then, you could subtract 180 from 400 which is 220.

3. MCC3.OA.8 (DOK 2)

Latoya is reading a book with 94 pages. She read 4 pages the day she got the book. She needs to read the rest of the book in 10 days.

1. How many pages left does Latoya need to read in the next 10 days?

 \* 94 – 4 = 90.

 \* Latoya has 90 pages left to read.

1. She wants to read the same number of pages every day for the next 10 days. How many pages does she need to read each day?

 \* 90 / 10 = 9.

 \* Latoya should read 9 pages every day.

4. MCC3.OA.9 (DOK 2)

Complete the table and determine the rule.

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| **In** | **Out** |
| 3 | 9 |
| 4 | ? |
| 6 | 18 |
| 8 | 24 |

A. 12 because the rule is + 3

B. 12 because the rule is x 3

C. 12 because the rule is x 3

D. 16 because the rule is + 4

5. MCC3.OA.9 (DOK 2)

Zekki receives $4.00 a week for walking the dog. He is saving all of his earnings for a new PlayStation 4. How much money has he saved by week 3, 6, and 7? Determine the rule and complete the pattern below.

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| **Weeks** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| **Earnings** | $4 | $8 | ? | $16 | $20 | ? | ? |

What is the rule? x 4

Week 3 $ 12

Week 6 $ 24

Week 7 $ 28

**6.** MCC3.MD.5 (DOK 2)

Look at the two rectangles below. Do they have the same area? Explain your thinking.



\*Both of the rectangles have the same area even though they have different dimensions. The area of the first rectangle is 2 x 6=12 square units and the area of the second rectangle is 3 x 4 =12 square units.

7. MCC3.MD.3 (DOK 2)

Students in Mr. William’s class voted for their favorite color. Which statement about the graph is true?



A. More students voted for redthan blue.

B. Fewer students voted for green than for red.

C. Half the number of students voted for green than purple.

D. Bluereceived the fewest number of votes.

8. MCC3.MD.3 (DOK 2)



How many more tourists visited the City Zoo and the Botanical Garden than the Science Center?

\*The students will add the City Zoo tourists and the Botanical Garden tourists together (200 + 300= 500). Then, they will subtract the sum from the Science center tourists (500-400=100). The answer is 100.

9. MCC3.MD.5 (DOK 2)

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The rectangle above has an area of 28 square units. Show how to make a rectangle with the same area but with a width of 2 square feet instead of 7 square feet.

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10. MCC3.MD.6 and MCC3.MD.7a (DOK 2)

Mrs. Janessa has decided to plant a garden for her mother in part of her mother’s backyard. Below is a drawing that she created to plan the yard.

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1. Determine the area of the ENTIRE backyard.

 \* Length X Width= 6 X 6= 36 square units.

1. Then, determine the area of the garden.

\* Area of the garden is 10 square units.

1. Use these areas to calculate what part of her yard will be left as a yard. Write this as an equation.

 \* The students will subtract 10 from 36. 36 -10 = 26. There will be 26 units that are left as a yard.

11. MCC3.MD.6 MCC3.MD.7a (DOK 2)

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1. Determine the area of the rectangle above.

 \* 4 X 8= 32 square units

1. What equation could you use to determine the area?

 \* Length X Width=4 X 8= 32 square units

12. MCC3.MD.7b (DOK 2)

The area of a rectangle is 24. Which pair of numbers could be the length and width of the rectangle?

\* This answer will vary. Some possible answers are:

6, 4 (6 X 4= 24)

2, 12 (2 X 12=24)

3, 8 (3 X 8=24)

13. MCC3.MD.7a (DOK 3)

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1. What is the area of the rectangle above?

 \* Length X Width= 6 X 3 = 18 square units

1. Add another row of squares along the bottom. Now what is the area?

 \*Length X Width= 6 X 4 = 24 square units

1. Explain why you can use multiplication to find the area.

\* If you add another row along the bottom of the rectangle, you can still use length X width to determine the area. The width just went up one number when you added a row, so you have 6 X 4 now instead of 6 X 3.

14**.** MCC3.MD.4 (DOK 2)

Use the data in the pictograph to complete a line plot graph below.

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| --- | --- |
| Length in Inches | Number of Caterpillars |
| 2 ¼  |  |
| 2 ¾  |  |
| 3 |  |
| 3 ¼  |  |

Length of Caterpillars in Inches

 X

 X

 X X

 X X

 X X X

 X X X X

 2 ¼ 2 ½ 2 ¾ 3 3 ¼