Third Grade Math Assessments

Includes assessments for each Third Grade Common Core Standard.

60+ pages of assessments!!!
This is an essential third grade math assessment pack. During our transition to the common core, our third grade team realized that we had no assessments to truly match each standard. We have worked to ensure that these standards have been assessed thoroughly and accurately. Each standard has 1-4 pages that are assessed. There are many standards that contain multiple assessments. I hope you enjoy this assessment pack! Please let me know if you have any questions!!!

Pages 4-5: Rounding Assessment: Common Core: MCC3.NBT.1

Pages 6-7: Addition Assessment: Common Core: MCC3.NBT.2

Pages 8-10: Addition and Subtraction Assessment: Common Core: MCC3.NBT.2

Pages 11-13: Multiplication Assessment: Common Core: MCC3.OA.1, MCC2.OA.3, MCC3.OA.7

Page 14: Distributive Property of Multiplication: Common Core: MCC3.OA.1, MCC3.OA.7, MCC3.OA.5

Pages 15-18: Multiplication and Division Assessment: Common Core: MCC3.OA.1,2,3,4,5,7

Pages 19-20: Multiples of 10 Assessment: Common Core: MCC3.NBT.3

Pages 21-22: Multiplication and Division Assessment: 2 digit multiplication and division up to 100. Common Core: MCC3.OA.1,2,3,5,7


Pages 25-26: 2 Step Word Problems: Common Core: MCC3.OA.8
Assessments Included

Pages 27-28: Patterns in multiplication and addition. Common Core: MCC3.OA.9

Pages 29-32: Fractions and Fractions on a Number Line: Common Core: MCC3.NF.1,2

Pages 33-36: Equivalent Fractions: Common Core: MCC3.NF.3

Pages 37-38: Elapsed Time: Common Core: MCC3.MD.1

Pages 39-41: Liquid Weight, Mass, And Volume: MCC3.MD.2


Pages 46-47: Measuring to the nearest half and quarter inch and placing on line plots: Common Core: MCC3.MD.4

Pages 48-49: Finding the Area of an object: Common Core: MCC3.MD.5,6

Pages 50-52: Finding the Area of rectilinear objects and using the distributive property: Common Core: MCC3.MD.7

Pages 53-54: Finding the Perimeter: Common Core: MCC3.MD.8

Pages 55-56: Finding the Area and Perimeter: Common Core: MCC3.MD.5,6,7,8

Pages 57-57: Classifying shapes and quadrilaterals and partitioning shapes into equal parts: Common Core: MCC3.G.1,2
Rounding Assessment
MCC3.NBT.1

1. Round the following numbers to the nearest ten. Use the number line to write the 10’s they are in between in the Circles. Place the number on the number line.

   57  
   □□

   43  
   □□

2. Round the following numbers to the nearest hundreds. Use the number line to write the 100’s they are in between in the circles. Place the number on the number line.

   126  
   □□

   345  
   □□
3. Round the following numbers to the nearest 10. Draw a number line if needed.

67___  56___  34___  88___

4. Round the following numbers to the nearest 100. Draw a number line if needed.

834____  326____  894_____  435____

5. Round the following numbers to the nearest 10. Underline the 10’s digit.

563____  341____  678_____  436____

6. Kimora rode a roller coaster that was 122 feet tall. What is this height estimated to the nearest 100?

7. What is 567 estimated to the nearest 100?

8. A horse’s brain weighs about 532 grams. What is this Estimated to the nearest 100?

9. Round 341 to the nearest 10 and 100.

10. Which number rounds to 60?
a. 53  b. 67  c. 58  d. 65
Addition Assessment
MCC3.NBT.2
1. Solve the following numbers using at least 2 different strategies.
   \[267 + 362\] Explain what strategy you used.

2. Which problem shows how I can solve \(462 + 326=\)
   a. \(400 + 62 + 32 + 26\)
   b. \(400 + 300 + 60 + 20 + 2 + 6\)
   c. \(4 + 6 + 2 + 3 + 2 + 6\)
   d. \(40 + 60 + 30 + 26\)

3. Brady and Colt have a crayon collection. Brady has 3,242 crayons. Colt has 1,449 crayons. How many crayons have they collected in all?
   *Solve the problem using at least 2 different strategies. Explain your strategies.
4. Which problem shows a way I can solve 832 + 496
   a. 800 + 400 + 30 + 90 + 2 + 6
   b. 80 + 30 + 20 + 40 + 90 + 60
c. 83 + 24 + 82

5. Antavius has 3,562 stickers. Mrs. Willis gave him 1,625 more. How many total stickers does Antavius have now?
   *Solve using at least 2 different strategies.

6. There are 563 students in third grade. There are 239 students in Second grade. How many students are in second and third grade?
   *Solve using your favorite strategy

Review

7. There are 392 students at Berta. About how many students are there?

8. Round 543 to the nearest 10.______

9. Give at least two numbers that round to 30.______,______

10. Which number rounds to 60? A. 53   B. 69   C. 56   D. 73
Addition and Subtraction Assessment

MCC3.NBT.2: Students will be able to add and subtract within 1000 using strategies based on place value, properties of operations, and the relationship between addition and subtraction.

1. Subtract 462 – 181 using at least 2 different strategies. Explain the strategies you used.

2. There are 2,367 students in LaGrange. There are 1,673 students in Newnan. How many total students are in LaGrange and Newnan? *Solve using at least 2 strategies.

3. Which problem shows 642 + 256?
   a. 6 + 4 + 2 + 2 + 5 + 6
   b. 60 + 40 + 20 + 20 + 50 + 60
   c. 600 + 200 + 40 + 50 + 2 + 6
4. There were 266 apples on a tree. 128 fell down. How many apples were left? Solve using at least 2 different strategies.

5. \[ 456 - 132 = 324 \] Use the inverse operation to show how you could check this answer.

6. There are 582 apples in the lunchroom. There are 266 oranges in the lunchroom. How many more apples are there than oranges? *Solve using at least 2 strategies.

7. Which problem shows 5,256 + 6,267?
   a. \[ 500 + 200 + 500 + 600 + 600 + 200 + 600 + 700 \]
   b. \[ 5,000 + 6,000 + 200 + 200 + 50 + 60 + 6 + 7 \]
   c. \[ 5 + 2 + 5 + 6 + 6 + 2 + 6 + 7 \]
8. Estimate the following problem: 436 + 288=

9. Write a fact family for 234 + 462 = 696

10. Solve 426 – 195. BONUS: Solve using the adding up strategy.

REVIEW:
11. Write 3 numbers that round to 300.______,  ______,  ______

12. Write 2 numbers that round to 20.______,  ______

13. Which number rounds to 460 to the nearest 10?
   a. 472    b. 461    c. 453    d. 486

14. Round 236 to the nearest 100 and the nearest 10. ______, ______

15. There are 359 students at Berta. About how many students are at Berta?________
1. Coach Willis bought 4 boxes of apples. There were 6 apples in each box. How many apples does Coach Willis have? *Solve in at least 2 ways- Include a Number Sentence*

2. Which multiplication sentence matches the picture below?
   - a. 2 x 5=10
   - b. 3 x 3=9
   - c. 3 x 5=15
   - d. 5 x 5=25

3. Kullum bought 4 packages of pencils. There are 8 pencils in each package. How many pencils did Kullum buy in all? Workspace:
   - a. 12 pencils
   - b. 30 pencils
   - c. 30 pencils
   - d. 32 pencils

4. Which addition sentence matches the multiplication sentence?
   4 x 7=
   - a. 4 + 4 + 7 + 7
   - b. 4 + 4 + 7 + 7 + 7
   - c. 4 + 4 + 4 + 4 + 4 + 4 + 4
   - d. 7 + 7 + 7 + 7 + 7 + 7 + 7
5. Use the commutative property of multiplication. What multiplication sentence matches each picture?

6. Brady is playing a game with his friends. He lays the cards on the table. Which multiplication sentence do the cards show?

7. If 4 x 9=36, Then 9 x 4= ________

8. What is the missing factor? Use the array to solve.

   X X X X
   X X X X
   X X X X
   X X X X
   X X X X
   5 x ____=20
9. Mrs. Willis rode her bike 3 days last week. Each day she rode 8 miles. How many total miles did Mrs. Willis ride?

   a. 11 miles  
   b. 16 miles  
   c. 24 miles  
   d. 27 miles

10. Solve 4 x 7 using at least 3 different strategies.

   1.

   2.

   3.

**REVIEW:**
1. Round 367 to the nearest 10 and 100.  ____  ____
2. Write 3 numbers that round to 500.  _____  _____  _____
3. Add 456 + 253 in 2 ways.
Name____________

Distributive Property of Multiplication MCC3.OA.1,5,7

1. \(3 \times 7\)  
   \((3 \times __) + (3 \times __)\)

2. \(4 \times 9\)  
   \((4 \times ___) + (4 \times ___)\)

3. \(6 \times 8\)  
   \((6 \times __) + (6 \times __)\)

4. \(7 \times 7\)  
   \((7 \times ___) + (7 \times ___)\)

Solve the following problems using the distributive property of Multiplication. Show your work in the workspace provided.

<table>
<thead>
<tr>
<th>5. (6 \times 7)</th>
<th>6. (4 \times 8)</th>
<th>7. (9 \times 7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. (3 \times 8)</td>
<td>9. (6 \times 9)</td>
<td>10. (4 \times 7)</td>
</tr>
</tbody>
</table>

9. We went to the park. There were 3 children. Each child had 3 crackers. How many crackers were there in all?

10. Colt went to the store. He bought 4 bags of oranges. There were 7 oranges in each bag. How many oranges did he buy?
Name__________________

Multiplication and Division Assessment  MCC3.OA.1, 2, 3, 7

1. There are 18 children going to summer camp. Each cabin holds 6 children. How many cabins will the children use during summer camp?

a. 6    b. 8    c. 3    d. 24

2. Antavious made the following problem using counters. He used The Commutative Property of Multiplication to find the missing number sentence. What is the missing number sentence?

4 x 3=12

Answer:______________________

3. Madison’s brother showed her how to use repeated addition to solve her multiplication problem in her homework. What is the Addition sentence that Madison’s brother showed her?

7 x 4=_____

Answer______________________________
4. Brady and Colt went to the pumpkin patch. They found 6 pumpkins. There were 7 pumpkin seeds in each pumpkin. How many seeds did they have in all?

Workspace

5. What is the missing factor?

\[ 5 \times 9 = \_\_\_ \times 5 \]

a. 5  
b. 45  
c. 14  
d. 9

6. What multiplication sentence matches the addition sentence?

\[ 9 + 9 + 9 = \]

a. \( 3 \times 3 = 9 \)  
b. \( 3 \times 9 = 27 \)  
c. \( 9 \times 2 = 18 \)  
d. \( 9 \times 9 = 81 \)

7. What number completes both of the number sentences?

\[ 8 \times \_\_\_ = 24 \]
\[ 24 \div 8 = \_\_\_ \]

a. 32  
b. 8  
c. 3  
d. 6
8. Kullum has 36 marbles. He is putting an equal number of marbles into 4 bags. Which number sentence could be used to find out the Number of marbles he is putting into each bag.

a. $36 \times 4$  
b. $4 \div 36 =$  
c. $36 \div 4 =$  
d. $4 \times 36 =$

9. $4 \times (7 \times 3) \times (4 \times 7) \times 3$
Will these two number sentences have the same answer? Explain.
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

10. Write a fact family for $32 \div 8$.

_________________________________________________________________
_________________________________________________________________

11. JaQuala cooked 15 ears of corn at the picnic. If each person ate 3 ears of corn, how many people were at the picnic?

a. 3  
b. 5  
c. 10  
d. 45

12. Draw a picture of what $4 \times 7$ looks like.

13. Draw an array that shows $8 \times 6$. What is the product?
14. Use the distributive property to show $6 \times 7$.

15. Which division fact tells about the following subtraction problem?

$$56 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 = 0$$

a. $56 \div 8 = 0$

b. $8 \div 56 = 0$

c. $56 \div 8 = 8$

d. $56 \div 8 = 7$

16. Solve $21 \div 7$ using pictures and repeated subtraction.

17. How could you check your answer in the above problem to show you are correct?  _________________________________________________

Review:

1. Round 567 to the nearest 10 and 100.  _______  _______

2. Name 3 numbers that round to 200.  _______  _______  _______

3. Subtract $472 - 264$ by sketching. Check your answer..
1. Which multiplication problem do the blocks show?

   a. 3 x 4 = 12
   b. 2 x 60 = 120
   c. 4 x 20 = 80
   d. 3 x 40 = 120

2. What is the product of 80 x 4?
   a. 32
   b. 340
   c. 360
   d. 320

3. Sketch the following problem. What is the product?
   6 x 30 = ______

4. There are 80 students in the lunchroom. Each student has 2 apples. How many apples are there in all? (Sketch and include a number sentence to solve.)

5. What is the product of 4 x 70? Solve this problem in 2 ways. Explain how you solved the problem.
6. What multiplication sentence do the blocks represent?

![Blocks Image]

- a. $8 \times 8 = 64$
- b. $4 \times 10 = 40$
- c. $4 \times 20 = 80$
- d. $10 \times 3 = 30$

7. Sketch the following multiplication problem.

\[7 \times 60 = \underline{\hspace{2cm}}\]

8. We are setting up chairs for a school assembly. We set up 5 rows of chairs with 40 chairs in each row. How many chairs did we set up? Explain your answer using words and pictures.

![Chairs Image]

9. There are 60 children playing in the park. They each have 3 packs of bubbles. How many packs of bubbles are there at the park?

- a. 63
- b. 57
- c. 18
- d. 180

10. What is the product?

\[9 \times 30 = \underline{\hspace{2cm}}\]
Name________________

Multiplication and Division Assessment  MCC3.OA.1, 2, 3, 7

1. A third grade class decided to sell boxes of cookies to help raise money for a school trip. Each box has 14 bags of cookies inside. If each student needed to sell 4 boxes of cookies, how many cookies did each student need to sell?
   a. 28
   b. 56
   c. 112
   d. 224

2. There were 54 apples set aside as a snack for the classes. The teachers divided up the apples equally between 3 classes. How many apples with each class get?
   a. 162
   b. 18
   c. 16
   d. 57

3. Solve in 2 ways: 4 x 32.

4. Solve 63 ÷ 3=_____.

5. 72 ÷ 4=_____
6. I have 23 boxes or oranges. There are 6 oranges in each box. How many total oranges do I have?

7. Cade's mom made cookies for his friends. She made 54 cookies. He split them evenly between 9 friends. How many cookies did each friend get?

8. Which is another way to write $5 \times 62$?

   a. $(5 \times 6) + (5 \times 2)$
   b. $(5 + 6) \times (5 + 2)$
   c. $(5 \times 60) + (5 \times 2)$
   d. $(5 \times 60) \times (5 \times 2)$

9. What multiplication problem does the following show?

   \[
   \begin{array}{cccc}
   & & & \\
   & & & \\
   & & & \\
   & & & \\
   3 \times 10 \times 7 & 3 \times 17 & 3 \times 10 & 3 \times 7 \\
   \end{array}
   \]

   a. $3 \times 10 \times 7$
   b. $3 \times 17$
   c. $3 \times 10$
   d. $3 \times 7$

10. Multiply $6 \times 42$. Choose your favorite method to solve. Explain why it is your favorite method.
1. There are 9 candy canes on the tree. Each candy cane has 7 red stripes. How many total red stripes are on the tree?

2. There are 784 lights hanging on the square. 258 lights went out. How many lights were left working? What number sentence would I use to solve?
   a. $784 \times 258$
   b. $784 + 258$
   c. $784 \div 258$
   d. $784 - 258$

3. Our class went on a field trip. There are 42 students. We took 6 vans. If we placed an equal number of students on each van, how many students would be on each van?

4. Mikayla brought in 4 packs of cupcakes for our Winter Party. There were 6 cupcakes in each pack. How many total cupcakes did we have?

5. There were 456 girls at the Winter Carnival. There were 358 boys. How many total students were at the Winter Carnival?

6. I have 6 groups of 3 hats. How many total hats do I have?
   a. 9
   b. 10
   c. 3
   d. 18
7. Tyler made 32 cookies. He shared them between 8 friends. How many cookies will each friend get?

8. There are 5 snowmen in a row. Each snowman has 4 buttons. How many buttons are there in all? What number sentence would I use to solve?
   a. 5 + 4  
   b. 5 - 4  
   c. 5 x 4  
   d. 5 ÷ 4

9. 623 people went to the fair Saturday night. 784 people went to the fair Sunday night. How many people went to the fair on Saturday and Sunday night?

10. We had 452 pieces of fruit for the party. 284 pieces were eaten. How many pieces of fruit did we have left?

11. We bought 8 bags of oranges. There were 6 oranges in each bag. How many total oranges did we have?

12. I have 27 Christmas Cards. I put the same amount of cards onto 3 pages. How many are on each page?
   a. 30  
   b. 9  
   c. 6  
   d. 24
Two Step Word Problems Assessment  MCC3.OA.8

1. Draw a picture to solve. Include what operations you would need to solve the problem.
I bought 3 packages of 6 yellow balls. I bought 6 packages of 4 red balls. How many total balls do I have?

2. Draw a picture to solve. Include what operations you would need to solve the problem.
I bought 3 packs of pencils everyday for 4 days. How many total pencils did I buy?

3. Marquee bought 4 pairs of socks for $2 each and a cap for $6. How much did he spend altogether?

4. What is the missing number (b). Explain your answer using pictures, numbers, and words.

   \[
   63 - 49 \div 7 = b
   \]
5. There are 8 students in Mrs. Willis’ class. Each student has 3 pencils. There are 4 students in Mrs. Morris’ class. Each of her students have 5 pencils. How many total pencils are in Mrs. Willis and Mrs. Morris’ class?

6. $42 - 24 \div 4 = x$
   $x = \underline{\hspace{2cm}}$

7. I bought 43 peppermints to bring to our party. On the way there, I dropped 15. I split the peppermints that I had left between 7 people. How many pieces did each person get?

8. Kelley bought 24 beads. She already had 18 beads at home. She will use 6 beads for each bracelet. How many bracelets can she make?
   a. 7
   b. 42
   c. 48
   d. 6

9. $32 \div 4 + 7 = b$
   $b = \underline{\hspace{2cm}}$

10. Ms. Mary bought 3 movie tickets. Each ticket costs $7. She also spent $23 on popcorn and drinks. How much did she spend in all?
   a. $33
   b. $21
   c. $44
   d. $2
MCC3.OA.9   Patterns in Addition and Multiplication

Complete the following number patterns and establish a rule

1. 11, 16, 21, 26, 31, ____, ____, ____,
   Rule: ______________________

2. 37, 34, 31, 28, ____, ____, ____,
   Rule: ______________________

3. 8, 16, 24, 32, ____, ____, ____,
   Rule: ______________________

4. How many circles would be in the next set? ______________

Choose the correct answer below:

5. Jason is counting by 5’s. He started at the number 17. Will he say the number 70? Show or explain how you find the answer.
6. Kayla multiplied a number by 3. The product was odd. Which could the other number that Kayla multiplied?

a. 2  
b. 4  
c. 6  
d. 7

Use the hundreds chart to answer questions 7 and 8.

7. Will the sum of two even addends ever be odd? Show or explain how you found your answer.

8. List the first ten multiples of 9 starting with 9 x 1.

   , , , , , , , , , ,

9. There are 2 chairs in the first row, 4 chairs in the second row, 8 chairs in the third row, 16 chairs in the 4th row, and 32 chairs in the fifth row. How many chairs will be in the 6th row? Draw a picture to help explain your thinking.
Fraction Assessment
MCC3.NF.1, MCC3.NF.2

1. There are 3 large picture frames. Each picture frame contains exactly 2 pictures. What fraction represents just one picture out of all the pictures in the frames.
   a. 1/3
   b. 2/3
   c. 2/5
   d. 1/6

2. Partition the quadrilateral into 4 equal pieces. Shade ¼.

3. Four children want to share a candy bar equally. What fraction of the candy bar will each child get?
   a. 1/2
   b. 1/4
   c. 3/4
   d. 4/4

4. A pizza is cut into 8 equal slices. Antavious ate 3 slices. What fraction of the pizza did Antavious eat? Draw a picture to support your answer.

5. What fraction best represents the shaded portion of the circle?
   a. 1/4
   b. 4/4
   c. 3/4
   d. 2/4
6. Circle the shapes below divided into fourths. Explain your reasoning.

7. Cassidy makes a model to show the goals that she scored in the soccer game. What fraction of the goals did she score?

8. What is the name for the parts?
   a. Thirds
   b. Fourths
   c. Sixths
   d. Eightths

9. Mikayla sold 6 candy bars. She sold 5 of the candy bars to Kullum. What fraction of the candy bars did Mikayla sell to Kullum?
   a. 1/6
   b. 3/6
   c. 5/6
   d. 6/5

10. What fraction names the shaded part of the shape?
    a. Three eighths
    b. Five eighths
    c. Five thirds
    d. Three fifths
Fraction Assessment
MCC3.NF.1, MCC3.NF.2

11. Azorria made a garden in the shape of a rectangle and divided it into 6 equal parts. She planted 4/6 of the garden with carrots. Draw a picture of what Azorria’s garden might have looked like. Explain your thinking.

12. Partition the number line below into 4 equal parts. Label the number line.

13. Which letter best represents ¾ on the number line?

14. Divide the number line into sixths. Draw a point on 5/6 and label.

15. What fraction is represented by X on the number line below?

   a. 1/4
   b. 2/4
   c. 2/3
   d. 1/3
16. Give a fraction that represents each point on a number line.

Point A: _______________________

Point B: _______________________

Point C: _______________________

17. Eva thinks that Q shows $\frac{2}{4}$ on the number line. Eva labeled the number line with unit fractions to show how she determined her answer.

Is Eva’s drawing correct? Give your answer using pictures, numbers, and words.
1. Write the equivalent fractions for the following figures.

![Grids](image)

2. Which fraction is equivalent to $\frac{1}{4}$. Draw a picture to support your answer.
   a. 2.4
   b. $\frac{1}{2}$
   c. $\frac{2}{3}$
   d. $\frac{2}{8}$

3. Which fraction is equivalent to $\frac{1}{2}$. Draw a picture to support your answer.
   a. 2.4
   b. $\frac{1}{2}$
   c. $\frac{2}{3}$
   d. $\frac{2}{8}$

4. Which is larger? $\frac{1}{4}$ or $\frac{1}{2}$? Explain your answer with pictures and words.

5. Which is true?
   a. $\frac{2}{6} < \frac{5}{6}$
   b. $\frac{2}{6} > \frac{5}{6}$
   c. $\frac{2}{6} > \frac{4}{6}$
   d. $\frac{6}{6} < \frac{1}{6}$

6. Colt ate $\frac{1}{8}$ of a pizza. Champ ate $\frac{1}{6}$ of a pizza. The pizzas were the same size. Who ate more pizza? Explain your answer?
7. Jason drew a model. What equivalent fractions are shown in his model?

8. Colt, Brady, and Emma are meeting at the library. Colt lives 1/3 mile from the library. Brady lives 2/3 mile from the library. Emma lives ¾ mile from the library. Who lives closer to the library?
   a. Colt
   b. Brady
   c. Emma
   Explain how you know.

9. Kate is planting a garden. She saved ¼ of the garden for tomatoes. Which of the following is equivalent to ¼? Circle your answer.

10. Jamie jumped 2/4 of the length of the sidewalk. Find an equivalent fraction. Use a visual model to solve the problem. Explain your model.

11. My friend and I each ordered a medium pizza. I ate 1/4 of my pizza. My friend ate 1/3 of his pizza. Who ate more? How do you know?
12. Which fraction below is equivalent to 1/3?
   a. 2/3  
   b. 2/6  
   c. 1/6  
   d. 3/6

13. Write <, >, or = for the fractions below. Label the fractions.

14. Shade 2/3 of the first rectangle. Shade 2/6 of the second rectangle.

\[ <, >, \text{ or } = \]

\[ 2/3 \quad \_\_\_ \quad 2/6 \]

15. Which shows correct order from least to greatest?
   a. 2/4, ¼, ¾  
   b. ¾, 2/4, ¼  
   c. ¼, ¾, 2/4  
   d. ¼, 2/4, 3/4

16. Floyd caught a fish that weighed \( \frac{3}{4} \) pound. Kevin caught a fish that weighed \( \frac{2}{3} \) pound. Which statement correctly compares the fractions?

   A \[ \frac{3}{4} > \frac{2}{3} \]
   B \[ \frac{3}{4} < \frac{2}{3} \]
   C \[ \frac{2}{3} = \frac{3}{4} \]
   D \[ \frac{2}{3} > \frac{3}{4} \]
17. Mikayla and Na’asia are reading the same book. Mikayla read 5/8 of the book. Na’asia read 5/6 of the book. Which statement is correct?

a. Mikayla read more of the book than Na’asia.
b. Na’asia read less of the book than Mikayla.
c. Mikayla read less of the book than Na’asia.
d. Na’asia and Mikayla read the same amount of the book.

18. Circle the fractions below that are equivalent to 1/3.

2/4
3/5
4/6
4/8

19. Dan and David are on the track team. Dan runs \( \frac{1}{4} \) mile each day. David runs \( \frac{3}{4} \) mile each day. Which statement is correct?

A Dan runs farther than David each day.
B David runs more than 1 mile each day.
C David runs the same distance as Dan each day.
D David runs farther than Dan each day.

20. Mr. Angelo sliced two pizzas into equal parts.

What fraction greater than 1 names both pizzas?
A \( \frac{2}{16} \)
B \( \frac{8}{16} \)
C \( \frac{16}{8} \)
D \( \frac{16}{4} \)
1. Brady’s basketball practice started at 4:45. It lasted 45 minutes. What time was his practice over?
   a. 5:00
   b. 5:45
   c. 5:30
   d. 6:15

2. Trey’s favorite show comes on at 4:00 and ends at 4:30. How long does your show last?
   a. 10 minutes
   b. 30 minutes
   c. 45 minutes
   d. 60 minutes

3. Good Luck Charlie begins at 4:30. It lasts 1 hour and 30 minutes. What time will it be over. Show your answer using the clocks below.

4. Ava’s party lasted from 1:50 P.M. to 3:40 P.M. How long did the party last?
   A. 1 hour and 50 minutes
   B. 2 hours and 50 minutes
   C. 2 hours and 10 minutes
   D. 1 hour and 10 minutes

5. What is the elapsed time?
   Elapsed Time:_________
5. Deb ate lunch from 12:15 to 12:50. How much time did Deb spend eating lunch? Use the number line below to show how to find the answer.

6. Sarah began reading her book at 11:35. She put it down 35 minutes later. At what time did Sarah put her book down?
   a. 12:00  
   b. 11:55  
   c. 12:05  
   d. 12:10

7. Luz rode her bike in the park for 45 minutes and rode in her neighborhood for 25 minutes. Luz stopped riding her bike at 4:40 P.M. At what time did Luz start riding her bike?
   A 3:30 P.M.  
   B 3:40 P.M.  
   C 3:55 P.M.  
   D 4:15 P.M.

8. Madison ate breakfast at 8:10. She left breakfast 45 minutes later. What time did she leave breakfast?
   a. 8:50  
   b. 8:55  
   c. 9:00  
   d. 8:45

9. Trey went to basketball at 3:30. He left practice at 4:50. How long did he stay at practice?

10. On the first clock, show 10:30. On the second clock, show 11:45. What is the elapsed time?

   Elapsed Time:  
   ___________
1. Angela is doing an experiment with paper clips. She discovered that 9 paper clips have a mass of 45 grams. What is the mass of each paper clip?

2. What is the best estimate for the weight of a shopping cart?
   a. 6 grams
   b. 6 kilograms
   c. 6 meters
   d. 6 liters

3. Which is the best estimate for the volume of a ketchup packet?
   a. 14 grams
   b. 14 liters
   c. 14 kilograms
   d. 14 milliliters

4. Colt has a container filled with 18 liters of water. Brady has a container filled with 27 liters. What is the total liquid volume of their containers?

5. Jason wants to find the mass of a pair of sneakers. Which unit should she use?
   a. Liter
   b. Kilogram
   c. inch
   d. gram
6. Which object below would be best measured using kilograms?

   a.  
   b.  
   c.  
   d.  

7. There are 8 jugs of apple juice on a shelf. Each jug has 3 liters of juice. How many liters of apple juice are on the shelf?

   a. 11 liters  
   b. 5 liters  
   c. 24 liters  
   d. 32 liters

8. Which is the best estimate for the weight of a paper plate?

   a. 12 liters  
   b. 12 kilograms  
   c. 12 grams  
   d. 12 milliliters

9. Tyler fills the mug below with apple cider. Which is the best estimate for how much the mug will hold?

   a. About 1 liter  
   b. Less than 1 liter  
   c. More than 1 liter  
   d. About 5 liters

10. Lisa uses a balance to compare the masses of the objects shown. Which is true about the objects?

    a. The mass of the erasers is the same as the erasers.  
    b. The mass of the erasers is more than the paper clips.  
    c. The mass of the erasers is less than the paper clips.  
    d. The mass of the paper clips is more than the erasers.
11. Which object would be best measured using grams?

a.  

b.  

c.  

d.  

12. A bag has 458 grams of carrots and 473 grams of celery. How many grams of vegetables are in the bag?

13. The total mass of 8 quarters is 32 grams. How many grams does each quarter have?

14. Ms. Clancy uses a backpack on a hiking trip. She took about 2 kg of food out of her backpack to make it lighter. The scale below shows how much the backpack weighed after she took out the food.

How much did the backpack weigh, in kg, before she took the food out?

kg
Favorite Lunches

Answer Questions 1-5 using the graph on the left.

1. According to the graph, how many total students were surveyed?
   a. 12  
   b. 16  
   c. 36  
   d. 34

2. How many more students chose chicken than hamburger. Show your work.
   a. 4  
   b. 12  
   c. 8  
   d. 6

3. Which two items were chosen by the same amount of students?
   a. Corn dog and tacos  
   b. Chicken and tacos  
   c. Pizza and chicken  
   d. Corn dog and hamburger

4. Which two items together were chosen by exactly 14 students?
   a. Chicken and spaghetti  
   b. Pizza and Corn Dog  
   c. Chicken and tacos  
   d. Hamburger and tacos

5. How many more students chose pizza than tacos?
   a. 18  
   b. 6  
   c. 8  
   d. 10
6. How many less students chose orange than pink?

7. How many total students chose purple and red?

8. How many more students chose blue than yellow?

9. Which two colors had the same amount chosen? How many total students chose these two colors?

10. How many fewer students chose green than blue?
Use the Pictograph to answer questions 11-15.

11. How many children like oranges?
   a. 3
   b. 5
   c. 6
   d. 9

12. How many more children chose oranges than peaches?
   a. 2
   b. 4
   c. 6
   d. 8

13. How many students chose bananas and oranges?
   a. 8
   b. 7
   c. 14
   d. 16

14. How many fewer students chose peaches than bananas?
   a. 2
   b. 4
   c. 12
   d. 6

15. How many total students were surveyed?
   a. 12
   b. 24
   c. 14
   d. 32
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>💥💥💥💥</td>
</tr>
<tr>
<td>May</td>
<td>💥💥💥</td>
</tr>
<tr>
<td>June</td>
<td>💥💥💥💥</td>
</tr>
<tr>
<td>July</td>
<td>💥💥</td>
</tr>
</tbody>
</table>

**Equals 5 days**

16. How many total days did it rain from April to July?

17. How many fewer days did it rain in July than April?

18. How many more days did it rain in June than May?

19. How many total days did it rain in April and June?

20. How many less days did it rain in May than April?
MCC3.MD.4 Assessment

1. Luis uses an inch ruler to measure a crayon. What is the length of the crayon to the nearest half inch?

   A 2 inches
   B 2 1/2 inches
   C 3 inches
   D 3 1/2 inches

2. Kayla uses an inch ruler to measure an eraser. What is the length of the eraser to the nearest fourth inch?

   A 1 inch
   B 1 1/4 inches
   C 1 1/2 inches
   D 1 3/4 inches

3. Show a line plot for the data displayed in the chart above.

<table>
<thead>
<tr>
<th>Length (in)</th>
<th>1</th>
<th>1 1/4</th>
<th>1 2/4</th>
<th>1 3/4</th>
<th>2</th>
<th>2 1/4</th>
<th>2 2/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

4. Measure the following line to the nearest 1/4 inch.
5. How many objects measured 1 ¼ inch?_______

6. How many more objects measured 1 inch than 1 ¾ inch?________

7. How many items measured 1 ½ inch and ¼ inch?_________

8. Jason measured 10 stamps. He made a table to show the measurements. Fill in the line plot to match the data table.

<table>
<thead>
<tr>
<th>Length in inches</th>
<th>Number of Stamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1 ½</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2 ½</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

9. How many more stamps did he have that measured 2 inches than 2 ½ inches?

10. How many fewer stamps measured 1 inch than 3 inches?
Name__________________

MCC3.MD.5,6 Assessment

1. John built a rectangle using square meter units. He made four rows with six square meter units in each. Draw a picture to represent the rectangle John built and then find the area of his shape.

2. Find the area of the rectangle.

3. In the area below, draw two rectangular representations of 18 square units. Explain your illustrations and areas in writing.
4. The floor of a bedroom closet is in the shape of a rectangle. It has an area of 12 square feet. Draw a diagram on grid paper to show the floor.

5. Write a multiplication sentence to show how you can find the area of the following rectangle.

6. What is the area of the rectangle?
   a. 12 square units
   b. 21 square units
   c. 18 square units
   d. 24 square units

7. What is the area?
   a. 11 sq. cm
   b. 28 sq. cm
   c. 32 sq. cm
   d. 21 sq. cm

8. Find the area.

9. Find the Area.
MCC3.MD.7 Assessment

1. Multiply the sides length and use the distributive property to find the rectangle’s overall area.

![Rectangle Diagram]

2. What is the area of the following rectangle. Include a number sentence illustrating how you solved the problem.

![Rectangle Diagram]

3. Drew wants to tile the bathroom floor using 1 foot tiles. How many square foot tiles will he need?

![Tile Diagram]

4. A storage shed is pictured below. What is the total area? How could the figure be decomposed to help find the area? Explain using numbers and words.

![Storage Shed Diagram]
5. Jasper used the expression $5 \times (10 + 3)$ to find the area of a rectangular closet floor, in square feet.

On the grid, draw a rectangle that Jasper could have measured.

What is the area of the closet floor? _______ square feet

6. Greg drew the shape of the parking lot at school.

What is the area of the parking lot?

- A 15 square units
- B 17 square units
- C 20 square units
- D 22 square units

7. The drawing shows Seth’s plan for a fort in his backyard. Each unit square is 1 square foot.

Which equation can Seth use to find the area of his fort?

- A $7 + 6 + 7 + 6 = 26$
- B $7 \times 6 = 42$
- C $6 \times 6 = 36$
- D $7 \times 7 = 49$
8. Susan and her friends were asked to design their ideal snow fort. After much thought, they came up with a U-shaped fort. Their fort is represented below. Find the total area of the wall of the fort. Then find the total area of the fort.

![Diagram of U-shaped fort]

9. Keisha draws a sketch of an area rug on grid paper. Which multiplication equation can she use to find the area of the rug?

![Grid image]

A $8 \times 8 = 64$
B $5 \times 5 = 25$
C $8 \times 5 = 40$
D $8 + 5 + 8 + 5 = 26$

10. The Shed Store sold two sheds yesterday. The first shed was 8 feet long and 6 feet wide. The second shed was the same length as the first shed. The area of the second shed was twice the area of the first shed. What is the width of the second shed?

A 3 feet
B 4 feet
C 12 feet
D 16 feet
MCC3.MD.8 Assessment

1. Alex drew this shape on a piece of grid paper.

What is the perimeter of the shape?

2. If you have a rectangle with an area of 24, name 2 possible perimeters it could have. Draw examples to support your answer.

3. Colt wants to build a pen for his dog. His dad gave him 32 meters of fence to use. Give different examples of how your pen could look. Choose the one you think would be the best. Give reasons to support your answer.

4. Look at Figure Q and Figure R below.

Brady said they have equal areas and perimeters because they have the same amount of square units. Is he correct? Give examples as to why or why not.
5. Chueng drew two shapes on grid paper. Which statement about the areas and perimeters of the rectangles is true?

A The areas are the same and the perimeters are different.
B The areas are the same and the perimeters are the same.
C The areas are different and the perimeters are different.
D The areas are different and the perimeters are the same.

6. Mrs. Rios wants to put a wallpaper border around the room shown below. She will use 36 feet of wallpaper border. What is the unknown side length?

A 6 feet  
B 8 feet  
C 14 feet  
D 28 feet

7. Vanessa uses a ruler to draw a square. The perimeter of the square is 12 centimeters. What is the length of each side of the square?

A 3 centimeters  
B 4 centimeters  
C 6 centimeters  
D 48 centimeters

8. Kim wants to put trim around a picture she drew. How many centimeters of trim does Kim need for the perimeter of the picture?

A 6 centimeters  
B 12 centimeters  
C 24 centimeters  
D 36 centimeters
Area and Perimeter Unit Test

1. Mrs. Willis needs to put new border AROUND her bulletin board. The width is 5 feet and the length is 7 feet. How many feet of border does Mrs. Willis need?

2. Ms. Gunn is putting new carpet in her living room. She needs to know how much carpet to use to COVER her room. The width of the room is 10 feet and the length is 6 feet. What is the area of the room?

3. What is the area of the following figure?

4. Mrs. Jennings needed to put a fence AROUND her back yard. The width of her yard is 20 feet and the length is 24 feet. What is the perimeter of her yard?

5. On the following figure, find out which is bigger, the area or the perimeter.

7 in

3 in.
6. What is the perimeter and the area of the following figure?

```
9 cm
```

```
4 cm
```

7. What is the perimeter of the following figure?

```
5 cm
```

8. Mrs. Wisener measured a window in the classroom. It was 2 feet wide and 3 feet tall. What is the area of the window?

9. Mrs. Frank has a square garden that measures 8 feet on each side. How many feet of fencing does she need to buy to go AROUND the square garden?

10. What is the area of the figure shown below?
MCC3.G.1 and MCC3.G.2 Assessment

1. Which of the following is not a quadrilateral?
   a. □  b. □  c. ○  d. □

2. Colt drew a quadrilateral that has only one set of parallel lines. Which did he draw?
   a. □  b. □  c. □  d. □

3. Brady drew a quadrilateral that has 2 sets of equal sides and 4 right angles. Which 2 shapes could he have drawn?
   a. Rectangle, Trapezoid  b. Trapezoid, Square  c. Triangle, Rhombus  d. Rectangle, Square

4. Tyler drew a quadrilateral that had only one set of parallel sides. Which did Tyler draw?
   a. □  b. □  c. □  d. □

5. What is the following quadrilateral?
   a. Square  c. Parallelogram  
   b. Rectangle  d. Trapezoid


7. Shade 1/3.

8. What fraction is shaded?

9. What fraction is shaded?

11. Which statement would go into the “both” section of the Venn Diagram?
   a. No Equal Sides
   b. 2 sets of parallel sides
   c. No Parallel sides
   d. 4 Right angles

12. Katelyn draws a quadrilateral with 2 sets of parallel sides. Which did she draw?
   a. □  b. △  c. □□  d. □□□

13. Which shape is not a parallelogram?
   a.   b.  c.  d.  

14. Which two sides are parallel in this quadrilateral? Name the quadrilateral.
   a.  d.  
   b.  c.  
   Quadrilateral ________________

15. Circle all of the quadrilaterals.

16. Circle the shapes that show fourths, or quarters.

17. Divide the shape into 3 Equal parts. Shade 1/3.

18. Which diagram shows ¼ of the area of the shape is black?

19. Monica has a rug in her bedroom. What fraction of the area of the rug is white?