Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_\_\_\_\_\_

**6th Unit 3: Fraction Operations Post Test**

\_\_\_\_\_\_\_\_\_\_ 1. What is the quotient of 10 ÷ $\frac{5}{6}$?

1. $\frac{5}{6}$
2. 8 1/3
3. 12 1/2
4. 12

\_\_\_\_\_\_\_\_\_\_ 2. Abigail was baking a special Jamaican holiday cake with her grandmother. The dry ingredients were $\frac{2}{3}$lb. of flour, $\frac{1}{8} $lb. of ground ginger, $\frac{1}{4}$ lb. of sugar. What was the total weight of the dry ingredients for this cake in simplest form?

1. 19/24 lbs.
2. 9/24 lbs.
3. 11/12 lbs.
4. 1 1/24 lbs.

\_\_\_\_\_\_\_\_\_\_ 3. Which operation would be appropriate to answer the problem below?

*What is the product of* $\frac{1}{4}$ *and 12?*

1. Addition
2. Subtraction
3. Multiplication
4. Division

\_\_\_\_\_\_\_\_\_\_ 4. Divide: $\frac{1}{2}$÷ 6

1. 1/12
2. 1/3
3. 12/1
4. 3

\_\_\_\_\_\_\_\_\_\_ 5. Marianne buys 16 bags of potting soil. Each bag weighed $\frac{5}{8} $- pound. How many pounds of potting soil did Marianne buy?

1. 80 pounds
2. 10 pounds
3. 8 pounds
4. 2 pounds

\_\_\_\_\_\_\_\_\_\_\_ 6. $\frac{2}{5}$÷ $\frac{1}{3}$=

1. 1 1/5
2. 2/15
3. 2/5
4. 1/2

\_\_\_\_\_\_\_\_\_\_\_ 7. 2 $\frac{3}{4}$+ 1$\frac{1}{10}$=

1. 3 4/14
2. 3 17/20
3. 3 4/20
4. 3 31/40

\_\_\_\_\_\_\_\_\_\_\_ 8. What is the value of 15 ÷ $\frac{3}{8}$?

1. 40
2. 5 5/8

1. 1/40

1. 5/8

\_\_\_\_\_\_\_\_\_\_\_ 9. Find the difference: $\frac{5}{9} $– $\frac{1}{4}$

1. 29/36
2. 4/36
3. 11/36
4. 4/5

\_\_\_\_\_\_\_\_\_\_\_ 10. Which operation would be appropriate to answer the following word problem: *If Lindsey, Joseph and Omeil shared 1*$\frac{1}{2}$ *lbs. of strawberries equally. How much did each person get?*

1. Addition
2. Subtraction
3. Multiplication
4. Division

\_\_\_\_\_\_\_\_\_\_\_ 11. Divide: $\frac{2}{3}$÷ 4

1. 6
2. 2/3
3. 2 2/3
4. 1/6

\_\_\_\_\_\_\_\_\_\_\_ 12. Two-fifths of the instruments in the marching band are brass, one-third is percussion, and the rest are woodwinds. One-fourth of the brass instruments are tubas. If there are 150 instruments in the band, how many are tubas?

1. 15 tubas
2. 60 tubas
3. 25 tubas
4. 50 tubas

\_\_\_\_\_\_\_\_\_\_\_ 13. $\frac{5}{12}$÷ $\frac{1}{2}$=

1. 5/24
2. 3/8

1. 1 3/8
2. 5/6

\_\_\_\_\_\_\_\_\_\_\_ 14. 15$\frac{5}{8} $+ 10$\frac{5}{6}$

1. 111/14
2. 2535/24
3. 2611/24
4. 2511/24

\_\_\_\_\_\_\_\_\_\_\_ 15. What is the quotient of 4 ÷ $\frac{3}{4}$?

1. 5 1/3
2. 3
3. 15/3
4. 1/2

\_\_\_\_\_\_\_\_\_\_\_ 16. There is a rectangular garden outside of MS 181. Mr. Warnock wants to put a fence around it. The garden is 2$\frac{1}{2}$feet long. It is $\frac{3}{4}$ ft. wide. All together, how many feet of fencing does Mr. Warnock need?

1. 31/4 feet
2. 9/8 feet
3. 6/4 feet
4. 61/2 feet

\_\_\_\_\_\_\_\_\_\_\_ 17. The model below represents a division equation.

**

Which equation represents the situation?



\_\_\_\_\_\_\_\_\_\_\_ 18. Multiply. $\frac{3}{5}$ ($\frac{3}{8}$)=

1. 9/40
2. 39/40
3. 3/5
4. 9/13

\_\_\_\_\_\_\_\_\_\_ 19. Divide: 6 ÷ $\frac{1}{2} $=

1. 1/12
2. 3
3. 4
4. 12

\_\_\_\_\_\_\_\_\_\_ 20. Solve: $\frac{9}{10} $÷ $\frac{11}{12}$=

1. 99/120

1. 33/10
2. 54/55
3. 54/53

\_\_\_\_\_\_\_\_\_\_ 21. Solve: 6$\frac{1}{4}$– 2$\frac{5}{7}$

1. 315/28
2. 415/28
3. 4 4/28
4. 41/6

\_\_\_\_\_\_\_\_\_\_ 22. Karelis made rice crispy treats. She made 3 batches. She gave $\frac{1}{2}$of one batch to her son, Jaquan. She cut the remaining batches of rice crispy treats into pieces. Each piece represented $\frac{1}{16}$ of a batch. How many total pieces can Karelis cut from the total leftover batches?

1. 32 pieces
2. 16 pieces
3. 40 pieces
4. 180 pieces

\_\_\_\_\_\_\_\_\_\_ 23. Solve. $\frac{2}{3} $+ $\frac{5}{6} $– $\frac{1}{4} $+ $\frac{1}{2}$

1. 1 3/4
2. 7/7
3. 42/2
4. 27/12

\_\_\_\_\_\_\_\_\_\_ 24. Jessica’s answer to the following question was $\frac{2}{5}$. Read the problem and explain if she is correct. *Last year Destiny sold* $\frac{2}{5}$*of the box of chocolate bars for the school fundraiser, this year she sold* $\frac{4}{5} $*of the box of chocolate, how much more of the box did she sell this year?*

1. Yes, she’s correct because the question is asking for a difference, therefore she should of subtracted 4/5 -2/5.
2. No, she is not correct because she should of multiplied 4/5 x2/5.
3. No, she is not correct because she should have divided 4/5 divided by 2/5.
4. No, she is not correct because she should have added 4/5 +2/5.

\_\_\_\_\_\_\_\_\_\_ 25. A baby’s t-shirt requires $\frac{4}{5} $yards of fabric. How many t-shirts can be made from 48 yards?

1. 53/5 t-shirts
2. 24/4 t-shirts
3. 60 t-shirts
4. 6 t-shirts

\_\_\_\_\_\_\_\_\_\_ 26. Multiply. 2$\frac{3}{8} $x$\frac{5}{12}$=

1. 95/96
2. 96/5
3. 19/9
4. 2/3

\_\_\_\_\_\_\_\_\_\_ 27. Jay is 59$\frac{1}{2}$inches tall. His sister, Mia, is 61$\frac{1}{3}$ inches tall. How many inches shorter is Jay than Mia?

1. 1/6 in.
2. 1 1/6 in.
3. 1 5/6 in.
4. 2 5/6 in.

\_\_\_\_\_\_\_\_\_\_ 28. A construction company is setting up signs on 4 miles of the road. If the company places a sign every $\frac{1}{8}$of a mile including one at the beginning of the construction zone, how many signs will it need?

1. 1/2 sign
2. 32 signs
3. 4 signs
4. 33 signs

\_\_\_\_\_\_\_\_\_\_ 29. John wants to share $\frac{3}{4}$ of the remaining $\frac{1}{2}$ of his Domino’s Pizza pie he had for dinner last night with a friend, how much of the total pizza pie would his friend receive?

1. 2/3 of the original pizza
2. 3/8 of the original pizza
3. 1 1/2 of the original pizza
4. 3/16 of the original pizza

\_\_\_\_\_\_\_\_\_\_ 30. What is the sum of $\frac{1}{5}$, $\frac{1}{3}$and $\frac{1}{6}$?

1. 2/3
2. 3/4
3. 7/8
4. 7/10

\_\_\_\_\_\_\_\_\_\_ 31. Choose which number sentence correctly answers the following question: *Gabrielle read* $\frac{3}{4}$*of her book last night. There is a total of 180 pages in the book. How many pages did Gabrielle read?*

1. 3/4 x 180/1 =
2. 3/4 + 180/1 =
3. 3/4 - 180/1 =
4. 3/4 ÷180/1 =

\_\_\_\_\_\_\_\_\_\_ 32. Ms. Dierking ran 3 $\frac{1}{3} $miles. Ms. Dierking ran it in 27 $\frac{1}{2} $minutes. What was her average pace?

1. 8 1/4 minutes
2. 1 8/4 minutes
3. 4 4/8 minutes
4. 8 1/2 minutes

\_\_\_\_\_\_\_\_\_\_ 33. If Ms. Sullivan has $\frac{7}{9} $yard of ribbon and she needs to cut $\frac{1}{12} $yard pieces of ribbon to make bows, how many full bows can she make before she runs out of ribbon?

1. 9 bows
2. 10 bows
3. 0 bows
4. 1 bows

\_\_\_\_\_\_\_\_\_\_ 34. Identify which equation represents the model shown below.



 

\_\_\_\_\_\_\_\_\_\_ 35. The doctor says that I need to drink 8$\frac{1}{2}$ cups of water and 1$\frac{1}{5}$ cups of milk every day. How much liquid does my doctor say I need to drink daily?

1. 9 3/20 cups daily
2. 9 3/9 cups daily
3. 9 1/3 cups daily
4. 9 7/10 cups daily