Level E - Form 1 - Applied Mathematics: Computation in Context

Sample Question

How much change will you get if you spend $2.49 and pay with a $5.00 bill?

A $1.51

B $1.61

C $2.51

D $2.61

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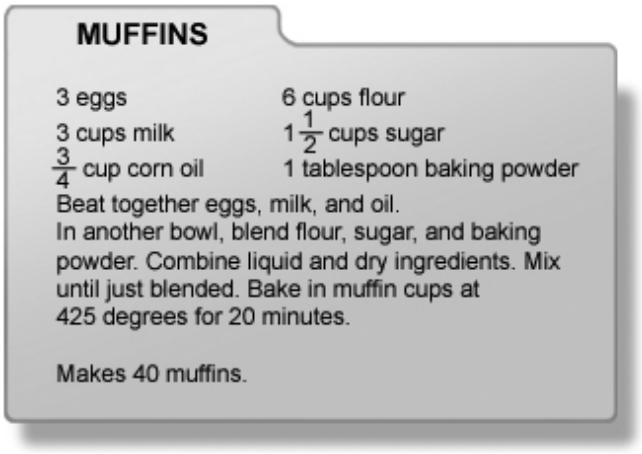
Elsa bakes muffins and sells them at $8.00 per dozen. Study the recipe. Then do Numbers 1 through 5.



MUFFINS

3 eggs
6 cups flour
3 cups milk
$1\frac{1}{2}$ cups sugar
$\frac{3}{4}$ cup corn oil
1 tablespoon baking powder

Beat together eggs, milk, and oil.
In another bowl, blend flour, sugar, and baking powder. Combine liquid and dry ingredients. Mix until just blended. Bake in muffin cups at 425 degrees for 20 minutes.

Makes 40 muffins.

1. How much flour does Elsa need to make 120 muffins?
   - A 10 cups
   - B 12 cups
   - C 18 cups
   - D 24 cups

2. How much corn oil is needed to make two batches of muffins?
   - F $\frac{3}{4}$ cup
   - G $\frac{6}{8}$ cup
   - H $2\frac{3}{4}$ cups
   - J $1\frac{1}{2}$ cups

3. A shop orders 5 dozen muffins. How much will Elsa charge for this order?
   - A $48.00
   - B $40.00
   - C $56.00
   - D $45.00

4. It takes Elsa 10 minutes to mix up a batch of muffins. The muffins bake for 20 minutes and then cool for 1 hour. Then Elsa spends 15 minutes packaging and labeling the muffins. How much time in all does Elsa spend making a batch of muffins ready to sell?
   - F $\frac{3}{4}$ hour
   - G $1\frac{1}{2}$ hours
   - H $1\frac{3}{4}$ hours
   - J $\frac{2}{3}$ hour

5. Elsa usually bakes 350 dozen muffins a month. At this rate, how many dozen will she bake in a year?
   - A 4,200 dozen
   - B 4,212 dozen
   - C 3,500 dozen
   - D 3,600 dozen

Study the menu from Mike's Lunch Counter. Then do Number 6 through 10.

6. Sarita ordered a roasted chicken dinner. The tax was $0.29. How much did she pay?
   - F $5.65
   - G $5.94
   - H $5.84
   - J $6.04

7. Jamal ordered two hamburgers and a soda. How much was his bill without tax?
   - A $2.40
   - B $2.45
   - C $3.60
   - D $4.28

8. Manny ordered a ham sandwich and bottled water. He paid $0.19 tax. How much did he spend in all?
   - F $2.60
   - G $2.50
   - H $2.41
   - J $2.22

9. Judy's bill was $8.43. She paid with a $20.00 bill. How much money should she get back?
   - A $12.43
   - B $11.43
   - C $11.57
   - D $10.57

10. How much would five orders of French fries cost before tax?
   - F $4.05
   - G $4.25
   - H $5.85
   - J $4.75

Jake manages a crew of 11 workers. He wants to order pizza for himself and his crew. Use this information to do Numbers 11 through 13.

11. If everyone wants 3 slices of pizza, how many slices must Jake order?

    A 33 slices

    B 36 slices

    C 39 slices

    D 42 slices

12. Jake orders 5 pizzas. They cost $9.75 each. What is the total cost?

    F $43.75

    G $45.55

    H $46.30

    J $48.75

13. Jake buys cases of soda for the crew. It normally costs him $17.55, but the price has been reduced $6.75. How much does he pay for the soda?

    A $10.80

    B $10.85

    C $11.20

    D $24.30

Green Park is adding 236 plants this spring. One hundred fifty of them will flower. The rest will not flower. Use this information to do Numbers 14 through 18.

14. How many plants will **not** flower?

F 126
G 120
H 86
J 76

15. After the first day, half the planting was complete. How many plants were planted that day?

A 43
B 75
C 113
D 118

16. Flowering plants are going to be planted along a 5-foot pathway. A plant will be placed at each end of the pathway. The plants need 6 inches between them. How many flowering plants will be needed?

F 30
G 17
H 11
J 10

17. $\frac{1}{3}$ of the flowering plants will have yellow flowers and $\frac{1}{4}$ of the flowering plants will have white flowers. What fraction of the flowers will be yellow or white?

A $\frac{2}{7}$
B $\frac{7}{12}$
C $\frac{1}{12}$
D $\frac{1}{2}$

18. The groundskeeper watered $\frac{1}{5}$ of the plants in the morning and $\frac{3}{10}$ of the plants in the evening. What fraction of the plants has been watered?

F $\frac{4}{15}$
G $\frac{2}{5}$
H $\frac{1}{2}$
J $\frac{3}{5}$

19. Dan built a path to his door. He used twenty-four blocks that were 1 foot in length. What is the total length of the path in yards?

A 6 yards

B 5 yards

C 7 yards

D 8 yards

20. Dan built a path using blocks that were 1 foot in length. His neighbor, Greg, also built a path, but Greg's blocks were each $\frac{3}{5}$ yard in length. How much longer were Greg's blocks than Dan's blocks?

F $\frac{2}{5}$ yard

G $\frac{4}{15}$ yard

H $\frac{14}{15}$ yard

J $\frac{1}{3}$ yard