

Level M - 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

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

Study this menu. Then do Numbers 1 through 5.



The Deli	
<u>Sandwiches</u>	
Turkey.....	\$2.89
Ham.....	\$2.75
Roast Beef.....	\$3.10
<u>Wraps</u>	
BBQ Chicken.....	\$4.68
Steak Fajita.....	\$4.98
House Salad.....	\$1.89
<u>Drinks</u>	
Iced Tea.....	\$1.19
Bottled Water.....	\$1.50

1. Stephen bought a BBQ chicken wrap. The tax was 28¢. How much did he pay?
A \$4.95
B \$4.86
C \$4.40
D \$4.96

2. Rita ordered a roast beef sandwich, a house salad, and an iced tea. How much was her bill before tax?
F \$6.18
G \$6.08
H \$5.18
J \$5.08
3. Roger bought a steak fajita wrap and bottle of water. He paid 39¢ tax. How much did he spend in all?
A \$6.48
B \$6.09
C \$6.87
D \$6.77
4. Charlie's bill was \$4.25. He paid with a \$10.00 bill. How much money should he get back?
F \$5.25
G \$5.75
H \$6.25
J \$6.75
5. How much would 4 ham sandwiches cost, before tax?
A \$10.80
B \$10.00
C \$12.40
D \$11.00

Heidi recorded the distances she walked while training for a race. Study the entries in her training journal. Then do Numbers 6 through 8.

WEEK 2						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
2 mi	$3\frac{1}{2}$ mi	REST	7 mi	$3\frac{1}{2}$ mi	$2\frac{1}{2}$ mi	5 mi

WEEK 3						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
REST	4 mi	$4\frac{1}{4}$ mi	$4\frac{1}{2}$ mi	REST	7 mi	5 mi

6. How many total miles did Heidi walk during her third week of training?

- F $24\frac{1}{2}$ miles
 G $24\frac{3}{4}$ miles
 H $24\frac{1}{3}$ miles
 J $24\frac{1}{8}$ miles

7. How many more miles did Heidi walk on Wednesday of week 2 than on Wednesday of week 3?

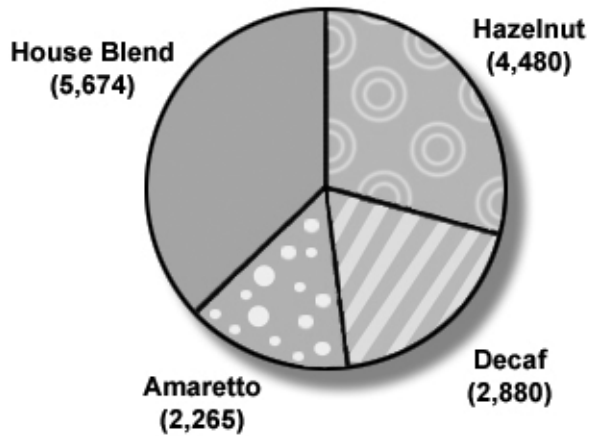
- A $3\frac{1}{2}$ miles
 B $2\frac{1}{2}$ miles
 C $1\frac{1}{2}$ miles
 D $2\frac{3}{4}$ miles

8. A fitness walking race is being held in Heidi's town. The distance of the race is 1.5 times the distance Heidi walks on Saturdays. What is the distance of the race?

- F 5.5 miles
 G 55 miles
 H 75 miles
 J 7.5 miles

The graph shows September sales for cups of each type of coffee sold at a café. Study the graph. Then do Numbers 9 through 11.

Coffee Sales in September



9. On average, how many cups of decaf did the café sell each week?
- A 70 cups
 - B 72 cups
 - C 720 cups
 - D 780 cups

10. The café sold exactly twice as many cups of hazelnut in September as it did in August. How many cups of hazelnut did the café sell in August?
- F 2,240 cups
 - G 2,480 cups
 - H 200 cups
 - J 8,960 cups
11. How many cups of coffee in all did the café sell in September?
- A 13,099 cups
 - B 15,099 cups
 - C 13,299 cups
 - D 15,299 cups

Here is a recipe for chocolate chip almond cookies. Study the recipe. Then do Numbers 12 through 14.

Chocolate Chip Almond Cookies

$2\frac{1}{4}$ cups flour	$\frac{3}{4}$ cup brown sugar
1 teaspoon baking soda	2 eggs
$\frac{1}{4}$ teaspoon salt	1 teaspoon vanilla
2 cups butter	$\frac{1}{2}$ cup milk chocolate chips
$\frac{3}{4}$ cup white sugar	$\frac{1}{2}$ cup white chocolate chips
	1 cup almonds

Preheat oven to 375°. In a separate bowl mix flour, baking soda, and salt. Cream butter. Add white sugar and brown sugar. Mix well. Add eggs and vanilla. Mix well. Gradually add flour mixture. Mix well. Stir in chocolate chips and almonds. Drop by spoonful onto cookie sheet. Bake for 10 minutes.

12. How many total cups of sugar are used?

F $\frac{3}{4}$ cup

G $1\frac{1}{2}$ cups

H $1\frac{3}{4}$ cups

J $\frac{3}{8}$ cup

13. How much flour would be needed to make two batches of cookies?

A $2\frac{1}{2}$ cups

B $4\frac{1}{4}$ cups

C $4\frac{1}{2}$ cups

D $4\frac{3}{4}$ cups

14. If you place two trays in the oven at a time, how long would it take to bake 8 trays of cookies?

F 16 minutes

G 80 minutes

H 40 minutes

J 20 minutes

An athletic director recorded the attendance at three football games for two seasons. Study the chart. Then do Numbers 15 through 16.

Football Game Attendance		
	Last Season	This Season
1st Game	5,327	5,630
2nd Game	4,560	5,215
3rd Game	4,934	5,076

15. How many more people attended the first game this season than last season?
- A 317
 - B 303
 - C 203
 - D 415
16. What was the total attendance for the first three games last season?
- F 15,921
 - G 30,742
 - H 13,711
 - J 14,821

17. A carpenter is building a bookshelf. Each shelf will measure $17\frac{1}{2}$ inches long. How many shelves can the carpenter cut from a board that is 96 inches long?
- A 4
 - B 5
 - C 6
 - D 7
18. A carpenter is building a table with four legs. Each leg of the table will be $36\frac{3}{4}$ inches long. What length of wood does the carpenter need for the legs of the table?
- F 150 inches
 - G $145\frac{3}{4}$ inches
 - H 147 inches
 - J 144 inches

19. Tori has a cat and a dog. Her cat weighs 12.3 pounds. Her dog is 6 times heavier than her cat. How much does Tori's dog weigh?
- A 62.8 pounds
 - B 72.8 pounds
 - C 63.8 pounds
 - D 73.8 pounds

20. Chad had a roll of leather that was $10\frac{1}{2}$ feet long. He used $3\frac{5}{6}$ feet of the leather to make a border. How much leather does he have left?

F $6\frac{2}{3}$ feet

G $6\frac{1}{6}$ feet

H $7\frac{1}{3}$ feet

J $7\frac{2}{3}$ feet