MC1

Linda hiked to the top of Mount Philo in $1\frac{2}{3}$ hours. Her hike down the mountain took $\frac{1}{2}$ of the time it took her to hike to the top.

How much time did it take for Linda to hike down the mountain?

Show your work.

MC2

There is $\frac{3}{8}$ of a pizza in the box.

John ate $\frac{1}{3}$ of the pizza in the box.

What fraction of a pizza did John eat?

Show your work.

MC3

Mark needs 7 pieces of wire for a project. Each piece of wire must be $\frac{5}{8}$ of a yard.

In order to have enough wire for his project, what is the least amount of wire Mark should buy?

a) 8 yards

b) 5 yards

c) 21 yards

d) 13 yards

Explain your thinking.

MC4

Six children shared some brownies. Each child got $\frac{1}{2}$ of a brownie.

How many brownies did they share?

Show your work.

MC5

Josh spends $\frac{3}{8}$ of his salary on rent each month. He has a monthly salary of $2,400.

How much does Josh spend on rent?

Show your work.

MC6

Isabella is making hamburger patties for a party. Each patty is made with $\frac{5}{8}$ of a pound of hamburger. She needs to make 24 patties.

How much hamburger does Isabella need to buy?

Show your work.

MC7

A country club has 1,200 members.

Five-sixths of the members are women.

One-eighth of the women take tennis lessons.

How many women take tennis lessons?

Show your work.

MC8

Susan purchased $2\frac{5}{8}$ yards of fabric. She used $\frac{7}{8}$ of the fabric she purchased to make a dress.

How many yards did she use to make the dress?

Show your work.

MC9

Allie had $96 for shopping.

She spent $\frac{3}{8}$ of her money on clothes.

She then spent $\frac{1}{3}$ of her remaining money on shoes.

How much money did she have left after buying both clothes and shoes?

Show your work.

MC10

Alice ran a race in 50 minutes.

It took Dan $1\frac{1}{2}$ times longer to run the same race.

How long did it take Dan to run the race?

Show your work.

MC11

There are $3\frac{3}{4}$ bags of flour in the bakery.

Each bag holds 5 pounds of flour.

How many pounds of flour are in the bakery?

Show your work.

MC12

Mike has a carpet that completely covers his bedroom floor.

The dimensions of his bedroom floor are $16\frac{3}{4}$ feet by $13\frac{1}{5}$ feet.

How many square feet is Mike's carpet?

Show your work.

MC13

Kelyn is baking cookies. The recipe calls for $1\frac{2}{3}$ cups of flour.

Kelyn wants to triple this recipe. She has 4 cups of flour.

Does she have enough flour?

Show your work.

MC14

Beth has a recipe to make one bag of trail mix.

How much of each ingredient does Beth need to make 6 bags of trail mix?

Record your answers in the table below.

Show your work.

Ingredients for One Bag of Trail Mix	Amount Needed for Six Bags
$\frac{1}{3}$ cups chocolate chips	
$\frac{5}{8}$ cups of peanuts	
$\frac{1}{8}$ cups raisin	

MC15

Fifty people came to the party.

One-tenth of the people arrived late.

How many people arrived late?

Show your work.

MC16

There are 16 musicians in the band.

$\frac{5}{8}$ of the musicians in the band are girls.

How many musicians in the band are girls?

Show your work.

MC17

Jim has 8 marbles.

Three-fourths of the marbles are red.

How many marbles are red?

Show your work.

MC18

Carol's dog has 9 puppies.

$\frac{2}{3}$ of the puppies are white.

How many puppies are white?

Show your work.

MC19

There are 12 cupcakes.

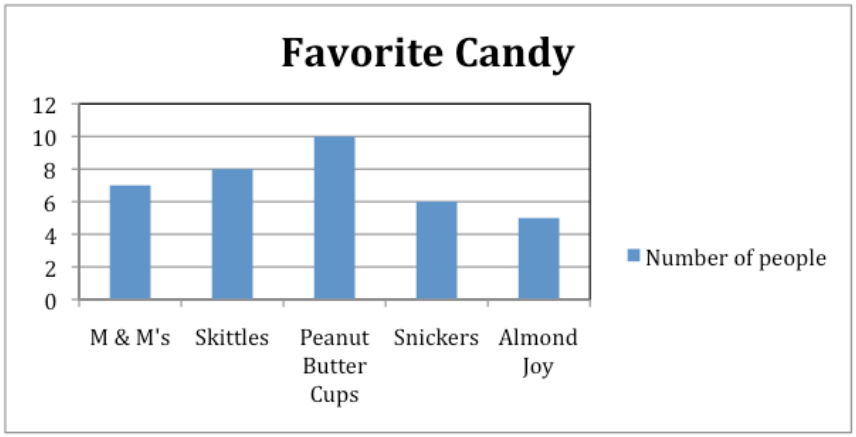
One-fourth of the cupcakes are chocolate.

How many cupcakes are chocolate?

Show your work.

MC20

The graph below shows the favorite candies of the fifth grade class.



A) What candy is the favorite of exactly $\frac{1}{6}$ of the fifth grade class?

Show your work.

B) What candy is the favorite of about $\frac{1}{4}$ of the fifth grade class?

Show your work.

MC21

The area of Phil's rectangular bathroom floor is 33 square feet. The width of the floor is 6 feet.

A) What is the length of the bathroom floor? Show your work.

B) Phil is covering the bathroom floor with square tiles. The size of each tile is ½ foot × ½ foot.

How many tiles will it take to cover the bathroom floor? Show your work.

MC22

Fred is buying square tiles to cover his rectangular hallway. The size of each tile is 1 foot by 1 foot.

The dimensions of his hallway are $8\frac{1}{2}$ feet by $5\frac{3}{4}$ feet.

How many tiles does Fred need to buy in order to cover his hallway?

Show your work.

MC23

Circle the problem or problems below that can be solved by the following expression.

$$\frac{3}{8} \times \frac{1}{4} =$$

Explain your thinking for each story problem.

a) A rectangular field is $\frac{3}{8}$ of a mile long and $\frac{1}{4}$ of a mile wide. What is the area of the field?

b) Chris planted $\frac{3}{8}$ of his garden with corn and $\frac{1}{4}$ of his garden with squash. What fraction of the garden is planted with corn and squash?

c) At the start of a bake sale, a plate of brownies was $\frac{1}{4}$ full. During the bake sale $\frac{3}{8}$ of the brownies were sold. What fraction of the plate of brownies is left at the end of the bake sale?

MC24

Circle the problem or problems below that can be solved by the following expression.

$$\frac{1}{5} \text{ x } \frac{3}{4} =$$

Explain your thinking for each story problem.

a) Rich and Bob shared a pizza. Rich ate $\frac{1}{5}$ of the pizza. Bob ate $\frac{3}{4}$ of the pizza. How much pizza did they eat together?

b) Three-fourths of the students in my class walk to school. Of those students who walk to school, $\frac{1}{5}$ walk with a friend. What fraction of the students in my class walk to school with a friend?

c) $\frac{1}{5}$ of the plants in Rob's garden are berry plants . $\frac{3}{4}$ of the berry plants are strawberries. What fraction of the plants in Rob's garden are strawberries?