



Fraction Remainders - set samples - paper 1

1. Bianca is making a lemon cake. The cake mix recipe is:

$$\frac{1}{2} \text{ sugar}$$
$$\frac{1}{10} \text{ flour}$$
$$\frac{1}{5} \text{ lemons}$$

The rest of the cake mix is made from other ingredients.

If there are 100 grams of cake mix

- a) How many more grams of lemons are there than flour?

ans _____

- b) What fraction of the cake mix is other ingredients?

ans _____

- c) How many grams of sugar are there?

ans _____

2. Amalia is making a lemon cake. The cake mix recipe is:

$$\frac{1}{10} \text{ sugar}$$
$$\frac{1}{2} \text{ flour}$$
$$\frac{1}{5} \text{ lemons}$$

The rest of the cake mix is made from other ingredients.

If there are 40 grams of cake mix

- a) How many grams of ingredients other than sugar, flour, lemons are there?

ans _____

- b) How many grams of sugar, flour and lemons combined?

ans _____

- c) How many grams of flour are there?

ans _____

3. Liam runs a factory. The daily production breakdown is:

$$\frac{1}{2} \text{ chairs}$$
$$\frac{1}{8} \text{ tables}$$
$$\frac{1}{4} \text{ shelves}$$

The rest of the daily production is other furniture.

If the factory produces 96 items per day

- a) How many shelves are produced?

ans _____

- b) What fraction of the daily production is other furniture?

ans _____

- c) How many items of chairs and shelves combined?

ans _____



Fraction Remainders - set samples - Answers

1. a) $1/5 - 1/10 = 1/10$
 $1/10$ of 100 grams = $100 \div 10 = 10$ grams
b) $1/2 + 1/10 + 1/5 = 5/10 + 1/10 + 2/10 = 8/10 = 4/5$
 $1 - 4/5 = 1/5$
c) $1/2$ of 100 grams = $100 \div 2 = 50$ grams
Answers: a) 10 grams b) $1/5$ c) 50 grams
2. a) $1/10 + 1/2 + 1/5$
 $= 1/10 + 5/10 + 2/10 = 8/10 = 4/5$
 $1 - 4/5 = 1/5$
 $1/5$ of 40 grams = $40 \div 5 = 8$ grams
b) $1/10 + 1/2 + 1/5 = 1/10 + 5/10 + 2/10 = 8/10 = 4/5$
 $4/5$ of 40 grams = $40 \div 5 \times 4 = 32$ grams
c) $1/2$ of 40 grams = $40 \div 2 = 20$ grams
Answers: a) 8 grams b) 32 grams c) 20 grams
3. a) $1/4$ of 96 items = $96 \div 4 = 24$ items
b) $1/2 + 1/8 + 1/4 = 4/8 + 1/8 + 2/8 = 7/8$
 $1 - 7/8 = 1/8$
c) $1/2 + 1/4 = 2/4 + 1/4 = 3/4$
 $3/4$ of 96 items = $96 \div 4 \times 3 = 72$ items
Answers: a) 24 items b) $1/8$ c) 72 items