

## Math lesson plan

### Hurriyet Primary School Dalaman-Turkey

**SUBJECT:** Numbers, Calculation, Problems, Money, problem solving strategies

**AGE GROUP:** 10-11

**TIME:** 40 minutes

**OBJECTIVES:** The Students will be able to;

- Solve subtraction problems presented in different forms
- Devise and use problem solving strategies to explore situations mathematically (guess and check, use drawing, use equipment, be systematic, act it out).
- Discuss how to solve word problems a money
- Work as a class to solve word problems focusing on addition, subtraction, multiplication, and simple fractions.
- Calculate their income
- Work with a partner to make up their own word problems

#### **WARM-UP: (10 minutes)**

Begin the lesson by asking students to think about money are used in their daily lives. Ask the students: What kind of wallets do they like? Do you prefer handmade wallets or fabric wallets? Have you ever joined a charity event? How much do you give for handmade wallet? What colour wallets do you prefer?

#### **PRESENTATION: (30 minutes)**

Explain to students that they use math every time they figure out how much time or money they have, spend, or need. During this lesson, students will be working together to apply the math skills they already know (addition, subtraction, multiplication, and fractions) to solve real-life problems about money and time. They will begin by working as a class to solve word problems about money and time. After practicing, students will work with partners to apply the same writing and math skills as they prepare their own word problems involving either time or money

Problems;

You prepared hand made wallets for the charity day and you have in total 30 colourful wallets. You sell one of the wallets to 20 TL. At the end of the charity, 27 wallets are sold to 20 TL But the rest wallets are sold to 15 TL. How much money do you earn for the charity day ?

If 27 wallets are sold to 20

$27 \times 20 = 550$  TL

30-27:3 wallets are sold to 15 TL

$3 \times 15 = 45$  TL

In total ; $550 + 45 = 595$  TL

Ask students if they understand how they use math all the time. Have them pick partners. Then have each pair make up one word problem focusing Money and income. The problems should give students practice working on addition, subtraction, multiplication, fractions and calculating their income . Have students write their problems on a piece of paper or on a transparency so they can present to the class. After they have written the problems, have them prepare their own solution in the form of an equation or equations, as well as a written explanation of the steps they used to solve the problem

Have each pair present its problem to the class. Have the presenting pair lead a discussion about the steps needed to solve the problem. Then they can reveal their own solutions.

### **HOMEWORK: (5 minutes)**

Problems: You created different handmade jewellerys for the enterprising week and sold them at charity day. You have 10 bracclets, 20 earrings, 10 necklaces. You sold one bracelet to 3 TL, earrings to 5 TL and necklaces 10 TL. At the end of the day, 2 bracclets, 4 earrings and 2 necklaces are left. How much money do you earn at the enterprising aday?

Problem: For E+E Charity Day; you prepared colourful handmade bookmarks. You have 100 bookmarks and one bookmark is 3 TL. For the materials of bookmarks you paid 80 TL to stationary store. How much money can you earn for the charity day?

### **Evaluation:**

Use the following three-point rubric to evaluate how well students listened in class, participated in class discussions, and were able to apply what they learned to write their own word problems.

- **Three points:** very attentive during class; actively participated in class discussions; and applied what they learned to write accurate, interesting word problems.
- **Two points:** somewhat attentive during class; showed some involvement during class discussions; and applied what they learned to write satisfactory word problems.
- **One point:** not attentive during class; showed little involvement during class discussions; and had difficulty applying what they learned to write their own word problems.

