

Student Activity Book

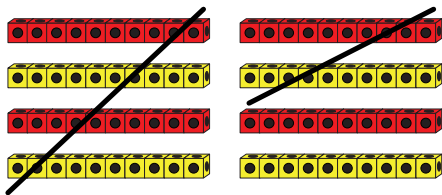
Adding and Subtracting Bags of Marbles
(SAB pp. 355–356)

Questions 1–6

Solution strategies and number sentences will vary. One possible solution strategy is given for each question.

1. $\boxed{60} - 40 = 20$; I used a 100 Chart. I knew the number of marbles she started with had to be 20 more than 40. I went two rows down from 40 to 60.

2. $80 - 60 = \boxed{20}$



3. $60 - \boxed{30} = 30$; I thought about 6 tens minus some tens equals 3 tens. $6 - 3 = 3$, so 60 ten - 3 tens - 3 tens.

4. $100 - 50 - 20 = 30$; I used a 100 Chart. I started at 100 and went down 5 rows to 50, then down 2 more rows to 30.

5.* $70 - 40 + 20 = 50$; On the class number line, I started at 70 and hopped back 40: 60, 50, 40, 30, and then forward 20: 40, 50.

6. $50 + 20 + 30 = \boxed{100}$; I thought about 5 ten frames plus 2 ten frames plus 3 ten frames. 10 ten frames of 10 is 100.

*Answers and/or discussion are included in the lesson.

Name _____ Date _____

Adding and Subtracting Bags of Marbles
Use the *Math Practices* page, number lines, cubes, the 100 Chart, and ten frames to solve the problems. Show or tell how you solved each problem and write a number sentence.

1. One day Maria had some blue marbles. She sold 40 blue marbles and had 20 blue marbles left. How many blue marbles did she have when the day began?

number sentence

2. After lunch Tony sold 80 marbles, and Maria sold 60 marbles. How many more marbles did Tony sell than Maria?

number sentence

3. Tony had 60 yellow marbles. He sold some of them but forgot how many. Later he noticed he had 30 yellow marbles. How many yellow marbles did he sell?

number sentence

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Name _____ Date _____

4. Maria had 100 green marbles in ten bags of 10. She sold 50 green marbles to her friend. Then she sold 20 more green marbles. How many does she have left?

number sentence

5. Tony had 70 red marbles in seven bags of 10. He sold 40 marbles. Then he found 20 more marbles in a box. How many marbles does he have now?

number sentence

6. In the morning Maria had 50 marbles in bags of ten. She decided to buy 20 more marbles. Later she bought 30 more. How many marbles did she have then?

number sentence

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Problem Solving with Bags of Marbles

Use the *Math Practices* page, number lines, cubes, the 100 Chart, and ten frames to solve the problems.

1. **A.** Maria had 80 marbles. Tony bought some of the marbles. Now Maria has 30 marbles. How many marbles did Tony buy?

_____ number sentence

- B.** How do you know your answer is reasonable?

2. In the morning Tony had some marbles in bags of 10. Later he sold 50 marbles. Now he has 20 marbles left. How many marbles did he have at the beginning? Show or tell how you solved the problem.

_____ number sentence

3. Maria had 90 marbles. She sold 30 in the morning and 30 in the afternoon. How many marbles did she have at the end of the day? Show or tell how you solved the problem.

_____ number sentence

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Problem Solving with Bags of Marbles (SAB p. 357) Questions 1–3

Solution strategies and number sentences will vary. One possible solution strategy is given for each question.

1. **A.** $80 - 50 = 30$

B. I know my answer is reasonable because I started at 80 on the 100 Chart. I counted back by tens until I got to 30: 70, 60, 50, 40, 30. 5 tens is 50.

2. $70 - 50 = 20$; I knew Tony had to start with more than 50. I tried starting with 60, but $60 - 50 = 10$. Then I tried 70, $70 - 50 = 20$.

3. $90 - 30 - 30 = 30$; I started at 90 on the 100 Chart and moved down 3 rows to 60. Then I moved down 3 rows again to 30.

Teacher Guide

Marble Problems (TG pp. 1–2)

Homework

Questions 1–7

1. $\boxed{30} + 30 = 60$

2. $10 + \boxed{80} = 90$

3. $70 - \boxed{60} = 10$

4. $80 - 50 = \boxed{30}$


5. $50 - 20 - 30 = \boxed{0}$

6. $60 - 40 + 30 = \boxed{50}$

7. Problems and solution strategies will vary.

Name _____ Date _____

Marble Problems

 **Homework**

Dear Family Member:

We have been working on solving a variety of addition and subtraction word problems using multiples of ten. Your child can use pictures, objects, a number line, ten frames, or 100 Chart to find the solution. You can help your child by asking if the answer is reasonable and what strategies he or she used.

Thank you.

Solve each problem and write a number sentence.

1. Tony had some marbles. He bought 30 marbles. Now he has 60 marbles. How many did he have at the beginning?
2. Maria had 10 marbles. Tony gave her some marbles. Now she has 90 marbles. How many did Tony give her?
3. On Tuesday Maria had 70 marbles. She gave some to her friend. Now she has 10 marbles. How many did she give to her friend?

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Name _____ Date _____

4. On Friday Maria sold 80 marbles and Tony sold 50 marbles. How many more marbles did Maria sell than Tony?
5. On Saturday Tony had 50 marbles. He sold 20 marbles in the morning and 30 in the afternoon. How many marbles did he have left?
6. Maria had 60 marbles. She sold 40 marbles. Later in the day she bought 30 more marbles. How many marbles did she have then?
7. Choose one problem and show or tell how you solved it.

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