

Name _____

Date _____

Math -“Does it add up?” – Applying Arithmetic Operations to Solve Everyday Problems

A story to read:

“Marcy, you need to do your math homework.”

“But Mom, I have to go and practice, all the others are going to be there. You promised I could take some cookies along too, remember?”

“That’s right! I forgot. OK, just remember to do the homework when you get back. The cookies are in the cupboard. How many do you need?”

“Well, there’s Billy and Tim and Sally and George, that’s 4, 5 with me. Peter said he would come too, and bring 3 of his friends. Let’s see, that makes 9. Could we have 3 each?”

“That should be fine. Help yourself. See you later!”

Marcy helped herself to 27 cookies and then took an extra one for luck! Then she ran off to join her friends on the hockey field. When she got there, they found there were already 5 other children playing.

“Can we join you?”

“Sure, let’s make 2 teams; there are 14 of us so we can have 7 on each side.”

“For a real team we should have 11 each, that’s 22, so we are 8 short altogether but it doesn’t matter, we can have a good practice anyway!”

The children enjoyed their game and after they finished Marcy remembered the cookies.

“Good thing I took an extra one”, she laughed, “now we can each have 2.”

“We had such a good game,” she told her mom when she got home.

“I’m glad, but now its time to finish your homework.”

“But I hate doing math,” groaned Marcy, “it’s such a waste of time!”

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A: Some sums

Marcy thinks that maths is a waste of time, but she was using it all the time in the story. Can you find all the math problems she solved? Write down the problem and say what type of calculation it was. I've done the first two for you:

1. $1 + 1 + 1 + 1 = 4$ addition
2. $4 + 1 = 5$ addition.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

B: Is math important?

Here are some of the ways in which Marcy used math. Each one has some examples for you to try for yourself:

Counting her friends.

$9 + 2 = \quad 6 + 4 = \quad 11 + 3 =$

Working out how many cookies she needed.

$5 \times 3 = \quad 7 \times 2 = \quad 10 \times 4 =$

Sharing the cookies.

$12 \div 6 = \quad 8 \div 2 = \quad 9 \div 3 =$

Finding out how many are missing.

$11 - 2 = \quad 9 - 7 = \quad 12 - 5 =$

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Activity A

1. $1 + 1 + 1 + 1 = 4$ addition
2. $4 + 1 = 5$ addition
3. $1 + 3 = 4$ addition
4. $5 + 4 = 9$ addition
5. $9 \times 3 = 27$ multiplication
6. $9 + 5 = 14$ addition
7. $14 \div 2 = 7$ division
8. $11 \times 2 = 22$ multiplication
9. $22 - 14 = 8$ subtraction
10. $28 \div 14 = 2$ multiplication

Activity B

Counting friends:	11; 10; 14
Working out how many cookies she needed:	15; 14; 40
Sharing the cookies:	2; 4; 3
Finding out how many are missing:	9; 2; 7.