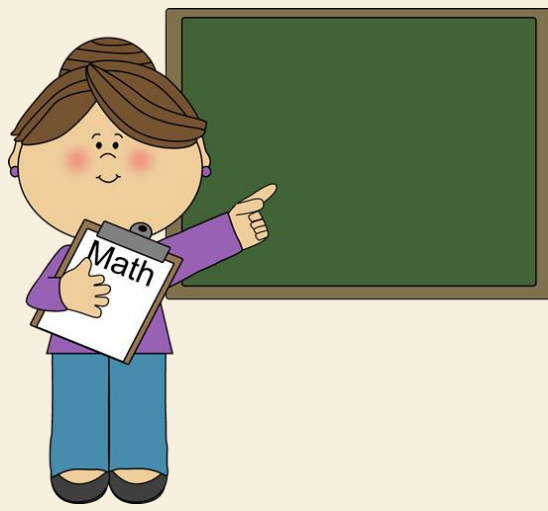




AAP MATH GRADE 4

DAY 1

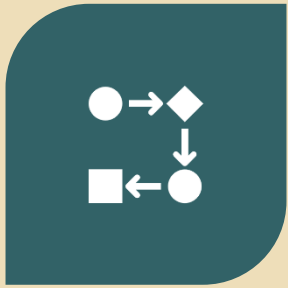


**This lesson is for Grade 4 AAP students.
Today's lesson will consist of an opening, a
problem of the day, a math activity, a
Dreambox lesson, and a reflection piece.
All assignments are due to your teacher.**

STANDARD

4.ATO.3

Solve multi-step, real-world problems using the four operations. Represent the problem using an equation with a variable as the unknown quantity.



I CAN DETERMINE THE FIRST
STEP IN A TWO-STEP PROBLEM.



I CAN DETERMINE THE
SECOND STEP IN A TWO-STEP
PROBLEM.



I CAN REPRESENT A TWO-STEP
WORD PROBLEM WITH
MODELS, PICTURES, AND
EQUATIONS.

I CAN STATEMENTS

ESSENTIAL QUESTIONS:

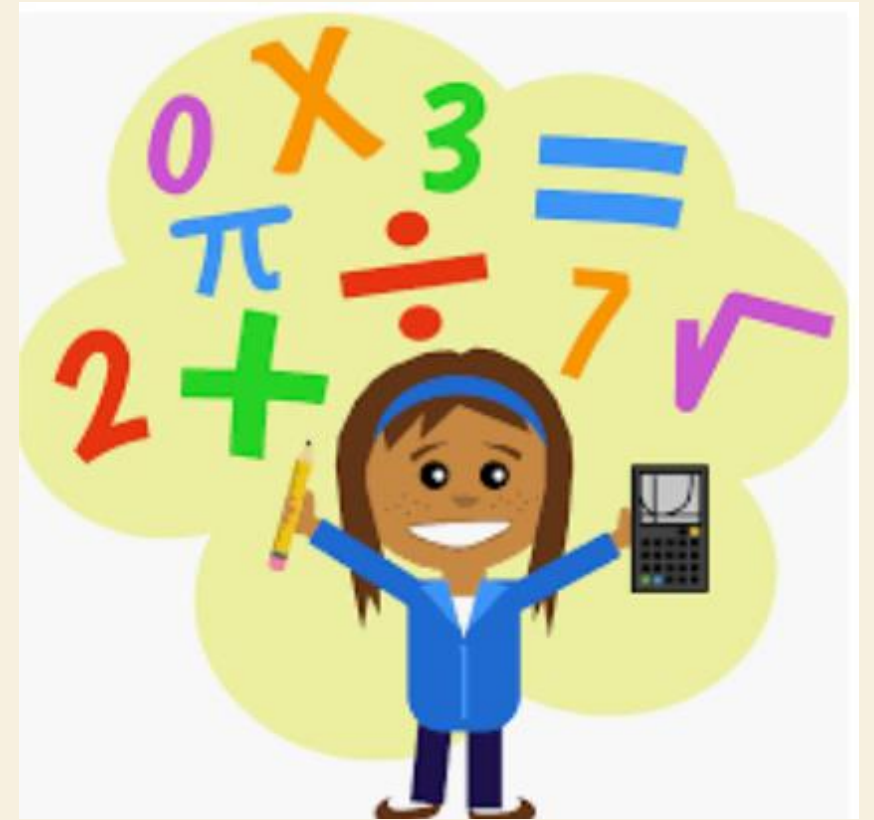
- How can we use clues and reasoning to find an unknown number?
- How does knowledge of mathematical operations help us solve real world problems?
- How can we organize our work when solving a multi-step word problem?

Materials and Resources:

- [Virtual Manipulatives \(if needed\)](#)
- Paper and Pencil
- Dreambox



ACTIVITIES



OPENING: GRADE 4 NUMBER ROUTINE

Solve the following problem at least 3 different ways:

$$12 \times 15 = \underline{\quad}$$



PROBLEM OF THE DAY

The apple trees grew so many apples that Lia filled 7 baskets with 13 apples each to take to the school picnic. Once there, Lia gave apples to everyone who passed by. At the end of the day, she had 46 apples left. How many apples did she pass out? Justify your answer using words, pictures, and/or numbers.

- a. 91
- b. 71
- c. 46
- d. 45



Activities:

#1
4.ATO.3
Quick Review

#2 Multi-step
Word Problems
Activity

#3 Answer
questions 1 – 5 on
the next slides.

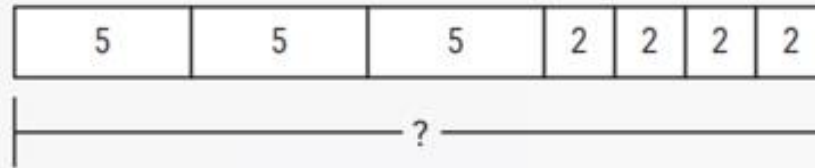


4.ATO.3 QUICK REVIEW

Your child might see a problem like this:

Monty's family bought 3 pies and 4 muffins at the bake sale. The pies cost \$5 each and the muffins cost \$2 each. Write an equation that represents the amount of money Monty's family spent at the bake sale.

Your child is learning to model a problem like this with a bar model:



Looking at the bar model can help your child write an equation for the problem:

Money spent = (3 pies for \$5 each) + (4 muffins for \$2 each)

$$M = (3 \times 5) + (4 \times 2)$$

Your child could also write a different equation:

Money spent = (\$2 each for 4 muffins) + (\$5 each for 3 pies)

$$M = (2 \times 4) + (5 \times 3)$$

Both equations show the information in the problem. In each equation, the letter M stands for the amount of money that Monty's family spent at the bake sale.

Multi-Step Word Problems Activity

Do an activity with your child to practice modeling word problems that have more than one step.

- Make up multi-step word problems using numbers you encounter in everyday life. Use ideas like the following:
 - Laurie has \$25. Is that enough money to buy 3 books for \$7 each and 2 folders for \$2 each?
 - Mark wants to sell 40 tins of popcorn for the school fundraiser. He sold 8 tins of popcorn on Monday. On Tuesday he sold 3 times as many tins of popcorn as he did on Monday. How many more tins does Mark still need to sell?



- Have your child draw a bar model or write an equation that could be used to solve each word problem that you think of.

Look for real-life opportunities to practice modeling problems that have more than one step with your child.



**THE RUNNING CLUB
HAS 3 MEMBERS. EACH
MEMBER RUNS 3 MILES
A DAY, 5 DAYS A WEEK.
HOW MANY MILES DO
THE CLUB MEMBERS
RUN EACH WEEK?**



Kyle had a summer job cutting lawns. He made \$32 in June, \$45 in July, and \$43 in August. In September he spent \$17 on school supplies and \$26 on clothes. How much money does he have left?

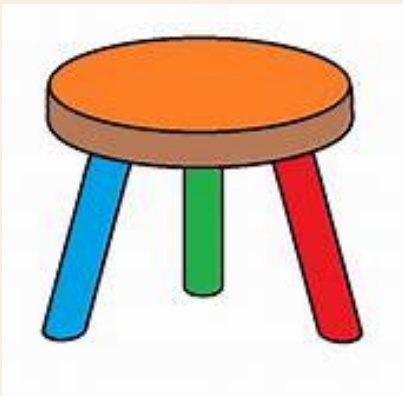


Paul and Phillip collect stamps. Paul has 35 stamps in his collection. Phillip has 4 times as many stamps as Paul. How many stamps do they have altogether?

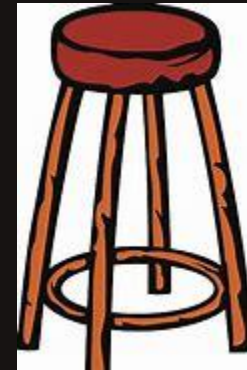
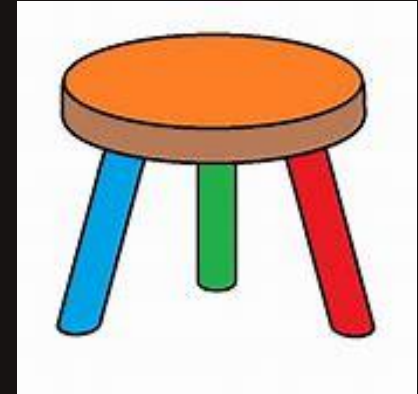
There are 32 students in the after-school art club. There are 3 times as many students in the computer club than the art club. There are 4 buses to take the students home. Each bus will have the same number of students. How many students are on each bus?



A manufacturing company is making stools. Stools have 3 legs, and some have 4 legs. A package with 27 legs arrived, and the company used all 27. How many 3-legged stools and how many 4-legged stools did the company make?



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FOR THE LAST PART OF TODAY'S LESSON, PLEASE GET ON DREAMBOX FOR 10 MINUTES.



**REFLECTION: WHAT WAS ONE THING YOU DID WELL WITH TODAY'S LESSON?
WHAT IS ONE THING YOU NEED ADDITIONAL HELP WITH?**



**GREAT JOB,
MATHEMATICIANS
! PLEASE MAKE
SURE YOU HAVE
WRITTEN DOWN
YOUR ANSWERS
TO EACH
QUESTION FROM
TODAY'S
ACTIVITIES AND
PLACE YOUR
WORK IN YOUR
BOOK BAG TO
GIVE TO YOUR
TEACHER WHEN
YOU RETURN TO
SCHOOL.**

