

Eureka Math

1st Grade Module 1 Lesson 17

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- Choose MAKE A COPY and rename your presentation.
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Icons



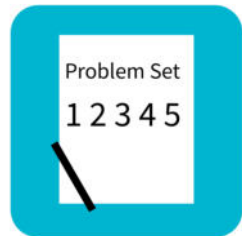
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



Small Group Time

Materials Needed

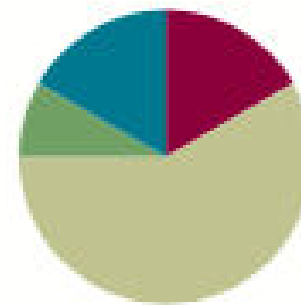
- (T) 7 pennies
- (T) 1 can
- (S) Number bond dash 7
- (S) Bag of 20 linking cubes (10 of one color, 10 of another)
- (S) Personal Whiteboard

Lesson 17

Objective: Understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences.

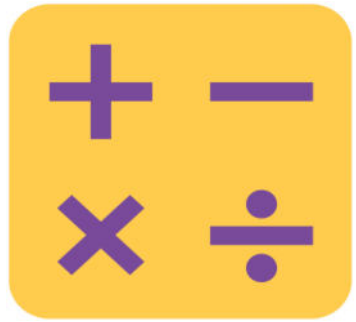
Suggested Lesson Structure

■ Fluency Practice	(10 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(35 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)

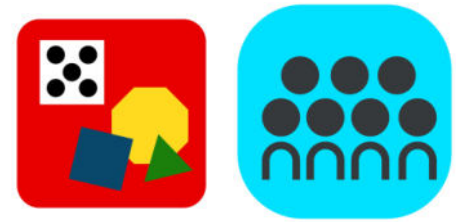




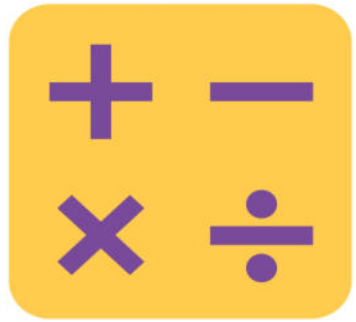
I can understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences.



Penny Drop: 7



I will show you 7 pennies. Close your eyes and listen. I'll drop some of the pennies in a can, one at a time. Then you will open your eyes and guess how many pennies are still in my hand. Then, say how many pennies you heard drop and count on to 7, using the remaining pennies.




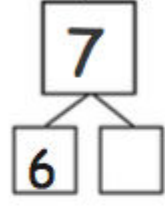
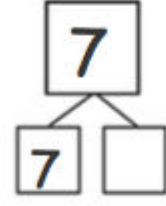
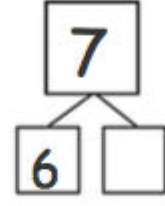
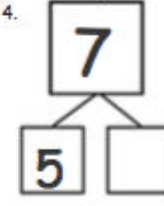
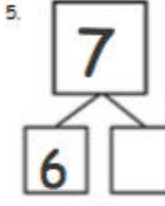
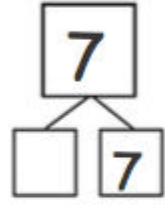
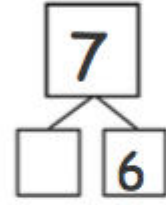
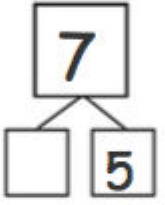
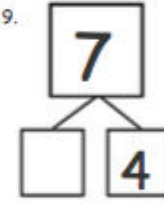
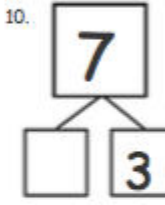
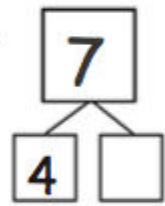
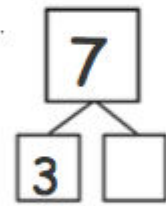
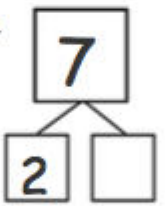
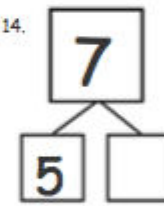
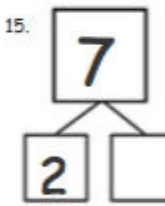
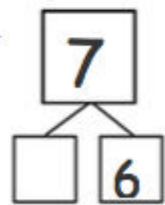
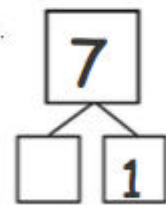
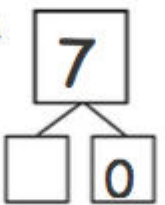
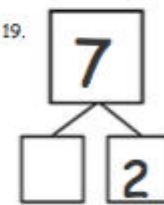
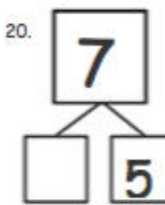
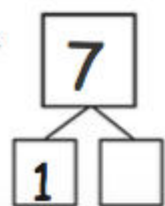
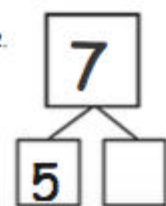
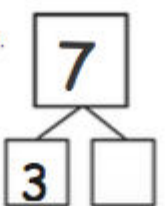

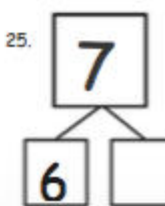
Number Bond Dash: 7

Let's do a Number bond dash!

A STORY OF UNITS Lesson 6 Fluency Template 1•1

Name _____ Date _____

Do as many as you can in 90 seconds. Write the number of bonds you finished here: 

1. 	2. 	3. 	4. 	5. 
6. 	7. 	8. 	9. 	10. 
11. 	12. 	13. 	14. 	15. 
16. 	17. 	18. 	19. 	20. 
21. 	22. 	23. 	24. 	25. 

Application Problem

There are 10 swings on the playground, and 7 students are using the swings. How many swings are empty? Draw or write a number sentence to show your thinking. Use a sentence at the end to answer today's question: How many swings are empty?



Concept Development



Let's play a game called Make it Equal. Partner B, close your eyes. Partner A, make your linking cubes look exactly like mine (Teacher: see notes). Hide your stick behind you and close your eyes.

Concept Development



Partner B, open your eyes. Make your linking cubes look exactly like mine. (Teacher: see notes.)

Concept Development



Partner A, open your eyes. Everyone, write the expression that shows how many cubes you have.

Concept Development



Show each other your linking cube stick. How are they the same? How are they different?

Concept Development



How are they the same?

Concept Development



Even though you have different parts, do you have the same total?

Concept Development



Put your expressions next to each other. Now, put your sticks in between the expressions by putting them one above the other. What do the two sticks look like now?

Concept Development



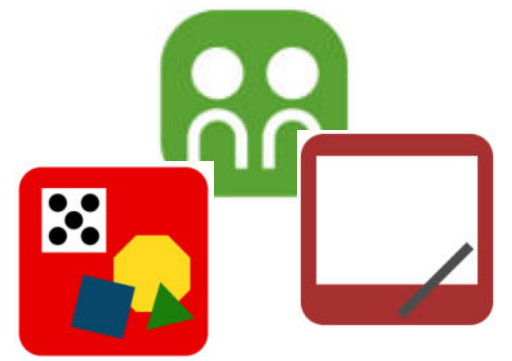
How many cubes do you have on the right side of the equal sign?

Concept Development



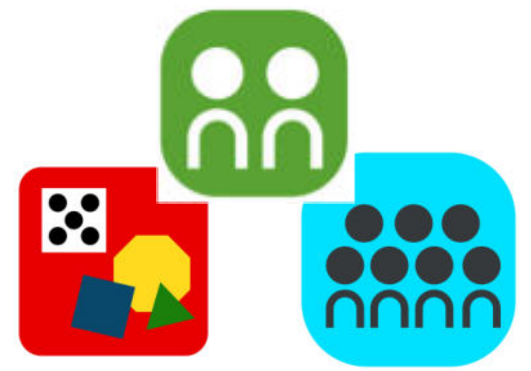
Does 5 equal 5?

Concept Development



Does $4+1$ equal $3+2$?

Concept Development



Yes! Let's say the number sentence:

$$4 + 1 = 3 + 2$$

Concept Development



This is called a true number sentence.

$$4 + 1 = 3 + 2$$

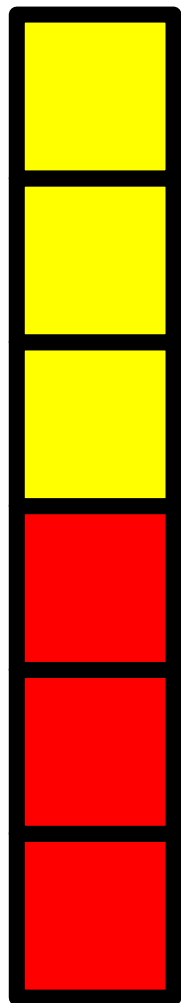
Concept Development

Let's repeat this process with other expressions!

Concept Development



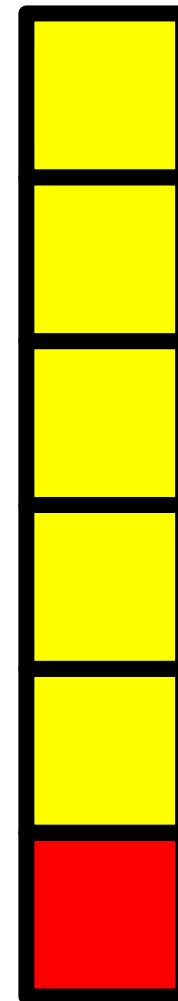
Look at these cubes. Partners, write the expression on one whiteboard.



Concept Development



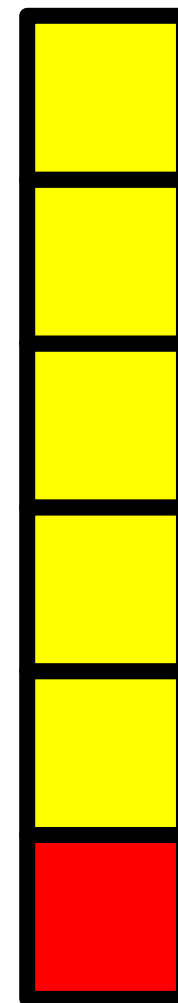
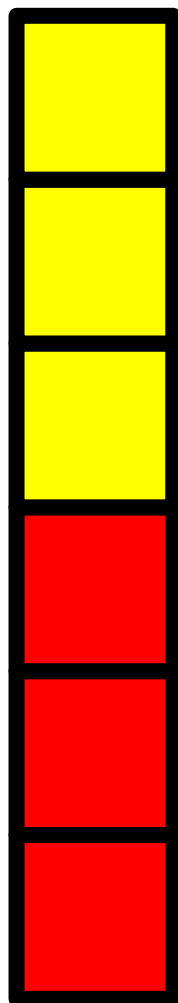
Now write the expression for these cubes on the other whiteboard.



Concept Development



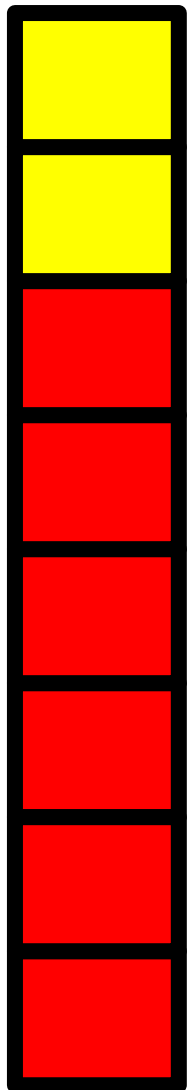
Give me a thumbs up if the expressions you wrote are equal. If it is, we'll draw an imaginary equal sign between the expressions.



Concept Development



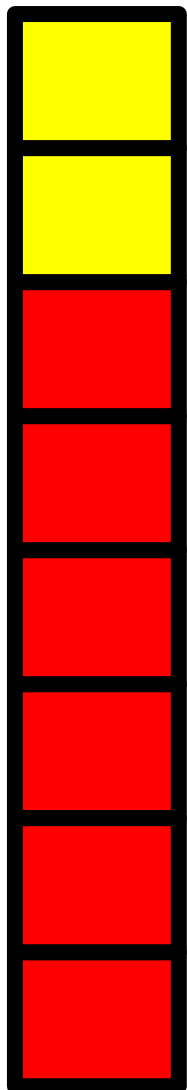
Now, let's look at these cubes!



Concept Development



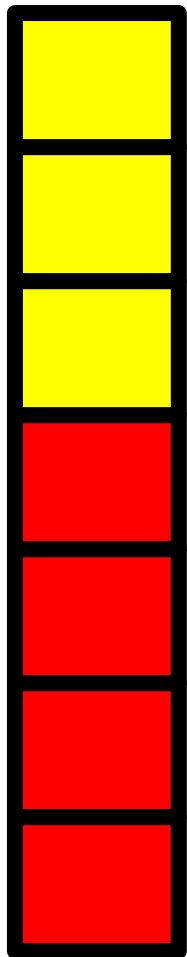
With your partner, use your linking cubes to make another stick to show the same total in a different way. Write the expression to match your stick. Then, use your sticks to make the equal sign to help you say the true number sentence.



Concept Development



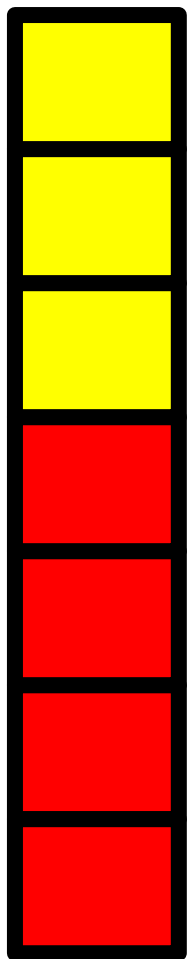
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Concept Development



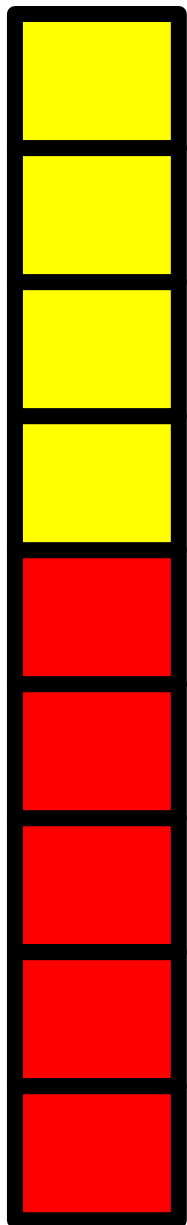
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Concept Development



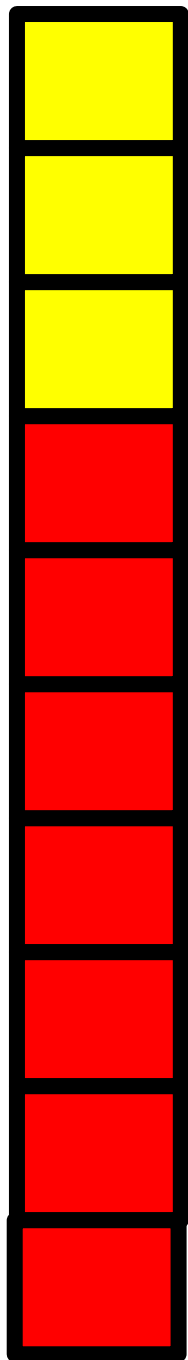
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Concept Development



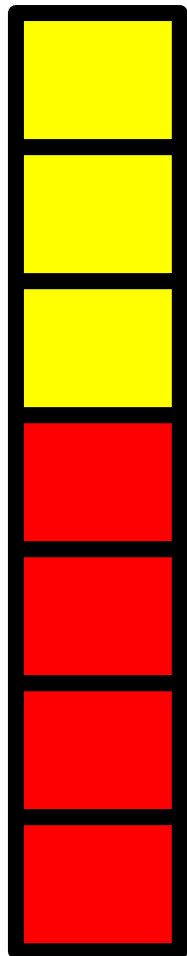
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Concept Development



With your partner, use your linking cubes to make another stick to show the same total in a different way. Write the expression to match your stick. Then, use your sticks to make the equal sign to help you say the true number sentence.



Problem Set

1 2 3 4 5

Problem Set

A STORY OF UNITS

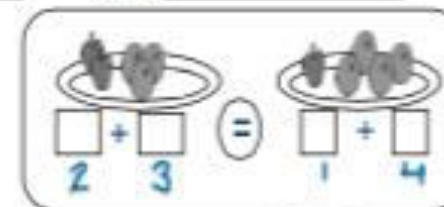
Lesson 17 Problem Set

1•1

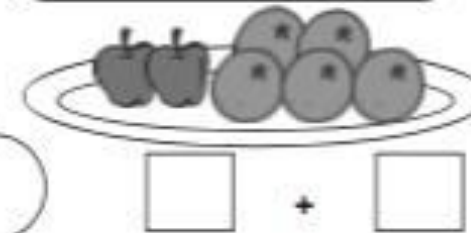
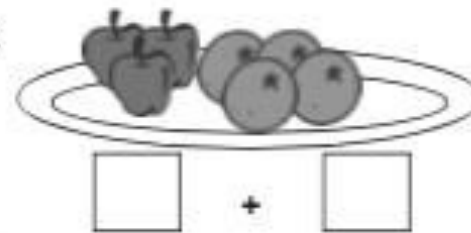
Name _____

Date _____

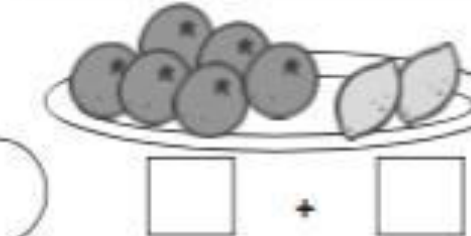
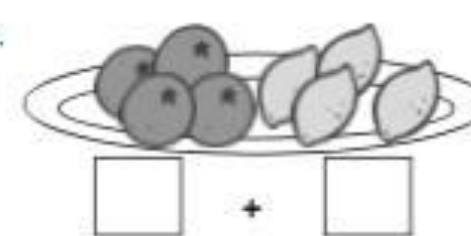
Write an expression that matches the groups on each plate. If the plates have the same amount of fruit, write the equal sign between the expressions.



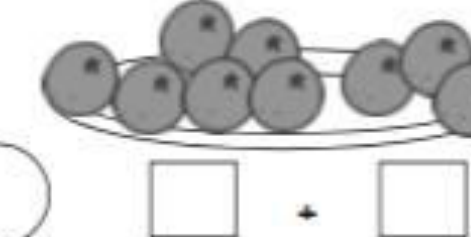
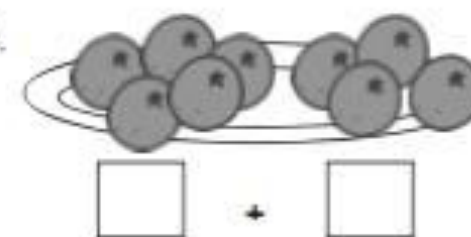
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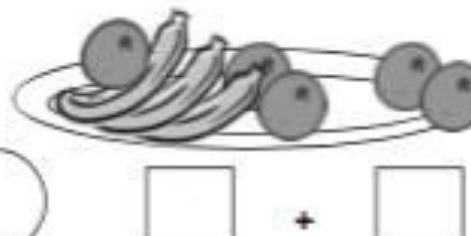
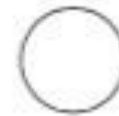
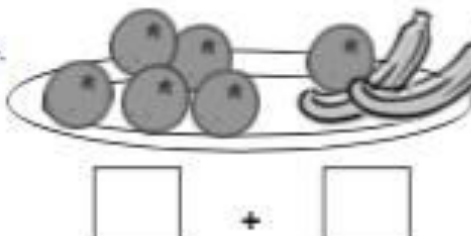
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3.



4.



Problem Set

1 2 3 4 5

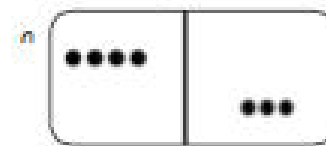
Problem Set

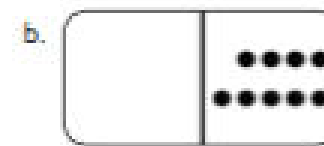
A STORY OF UNITS

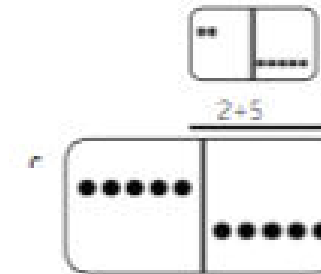
Lesson 17 Problem Set

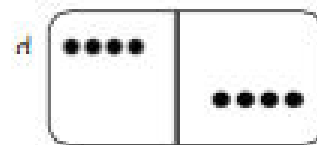
1•1

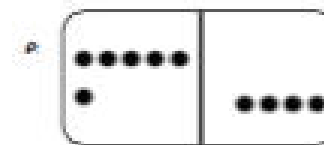
5. Write an expression to match each domino.

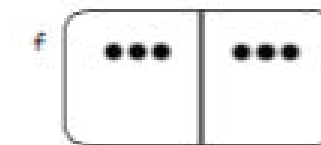




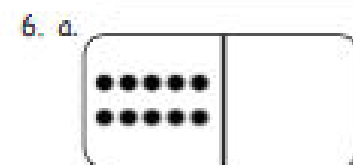




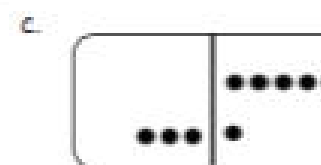


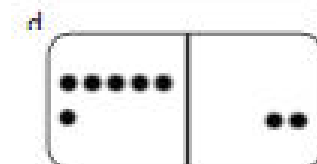


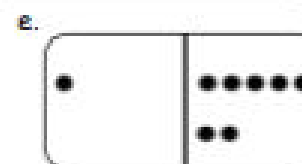
g. Find two sets of expressions from (a)–(f) that are equal. Connect them below with = to make true number sentences.

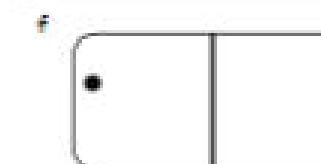












g. Find two sets of expressions from (a)–(f) that are equal. Connect them below with = to make true number sentences.

Debrief

- Look at Problems 1–4. In Problem 1, we have apples plus oranges, and that equals fruit. What about Problem 2? What about Problem 3? What about Problem 4? How is Problem 3 different from the others?
- Look at Problem 5(g). Share what you wrote as your true number sentence. What is the total represented by each side of this true number sentence?
- If both sides equal 10, is $6+4=5+5$ the same as $10 = 10$? (Write this on the board.) Talk with your partner about why or why not.
- Look at the true number sentence you wrote for Problem 6(g). Think about what we just decided about Problem 5(g). What is another way you can write the true number sentence?
- Think about the goal of today's lesson. What does the equal sign tell us?

Exit Ticket

A STORY OF UNITS

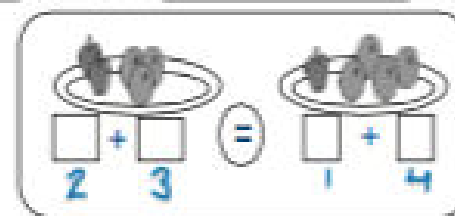
Lesson 17 Problem Set

1•1

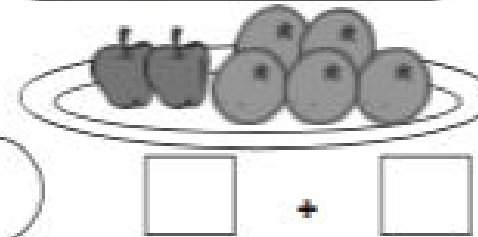
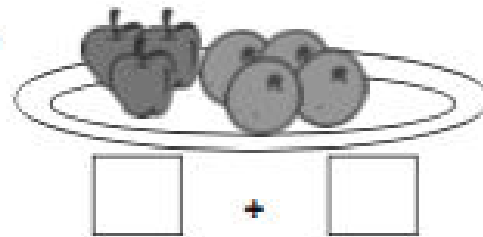
Name _____

Date _____

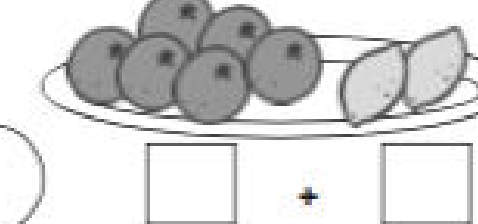
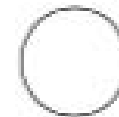
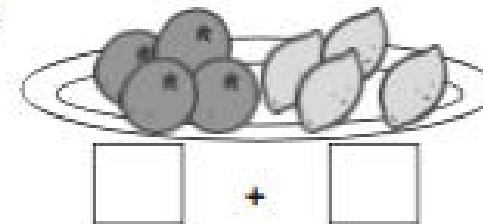
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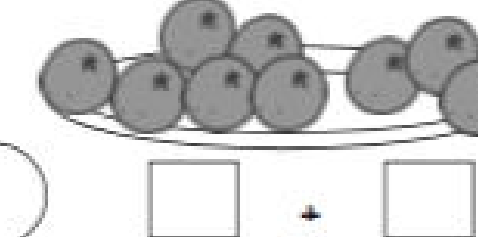
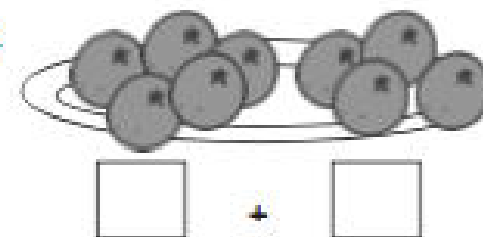
1.



2.



3.



4.

