Eureka Math

1st Grade Module 4 Lesson 22

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Icons









Manipulatives Needed

Lesson 22

Objective: Write word problems of varied types.

Suggested Lesson Structure

- Fluency Practice
 Concept Development
 Student Debrief
 - **Total Time**

(15 minutes)(33 minutes)(12 minutes)(60 minutes)

Materials Needed

Problem Set

I can write word problems of varied types.

Race and Roll Addition (3 min.)

All students start at 0. Partners take turns rolling a die, saying a number sentence, and adding the number rolled to the total. For example, Partner A rolls 6 and says, "0 + 6 = 6." Then, Partner B rolls 3 and says, "6 + 3= 9." They continue rapidly rolling and saying number sentences until they get to 20 without going over. Partners stand when they reach 20. For example, if they are at 18 and roll 5, they would take turns rolling until one of them rolls a 2 or a 1 and a 1. Then, they would both stand.

Sprint: Related Addition and Subtraction (10 min.)

ame			Number Correct: Date	ct: 22
Write t	he missing number. Pay at	ttention to the + a	nd - signs.	
1	2 + 2 = 🗆	16	2 + 🗆 = 8	
2	2 + 🗆 = 4	17	6 + 🗆 = 8	
3	4 - 2 = 🗆	18	8 - 6 = 🗆	
4	3 + 3 = 🗆	19	8 - 2 = 🗆	
5	3 + 🗆 = 6	20	9+2=□	
6	6 - 3 = 🗆	21	9 + 🗆 = 11	
7	4 + 🗆 = 7	22	11 - 9 = 🗆	
8	3 + 🗆 = 7	23	9 + 🗆 = 15	
9	7 - 3 = 🗆	24	15 - 9 = 🗆	
10	7 - 4 = 🗆	25	8 + 🗆 = 15	
11	5+4= 🗆	26	15 - 🗆 = 8	
12	4 + 🗆 = 9	27	8 + 🗆 = 17	
13	9 - 4 = 🗆	28	17 - 🗆 = 8	
14	9 - 5 = 🗆	29	27 - 🗆 = 8	
15	9 - □ = 4	30	37 - 🗆 = 8	

A STORY	OFUNITS		Lesson 22 Sprint	
B Name			Number Correct:	
Write t	he missing number. Pay at	ttention to the + a	nd - signs.	
1	3 + 3 = 🗆	16	2 + 🗆 = 9	
2	3 + 🗆 = 6	17	7 + 🗆 = 9	
3	6 - 3 = 🗆	18	9 - 7 = 🗆	
4	4 + 4 = 🗆	19	9 - 2 = 🗆	
5	4 + 🗆 = 8	20	9 + 5 = 🗆	
6	8 - 4 = 🗆	21	9 + 🗆 = 14	
7	4 + 🗆 = 9	22	14 - 9 = 🗆	
8	5 + 🗆 = 9	23	9 + 🗆 = 16	
9	9 - 5 = 🗆	24	16 - 9 = 🗆	
10	9 - 4 = 🗆	25	8 + 🗆 = 16	
11	3 + 4 = 🗆	26	16 - 🗆 = 8	
12	4 + 🗆 = 7	27	8 + 🗆 = 16	
13	7 - 4 = 🗆	28	16 - 🗆 = 8	
14	7 - 3 = 🗆	29	26 - 🗆 = 8	
15	7 - 🗆 = 3	30	36 - 🗆 = 8	

MATH

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EUREKA

Lesson 22:

Write word problems of varied types

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Longer/Shorter

10 20

This rectangle can fit a row of 10 dots.

I'm going to start to draw a rectangle that can fit a row of 20 dots of the same size. Tell me when to stop.

Why did you say "stop" there?

Longer/Shorter

Repeat this process for the following sequence of numbers: 10 and 5, 4 and 4, 4 and 8, 4 and 2, 8 and 10,

10 and 9. Only draw the actual dots for the first example. With each example, help students talk about how the first number compares, or relates, to the second number using language such as a little longer, a little shorter, much longer, double, etc.

Application Problem RDW

There is no Application Problem for today's lesson.

I found this drawing on a piece of paper on the floor. It went with someone's word problem from this week. Does anyone know which one it went to? Look through your Problem Sets with a partner, and see if you can figure it out.

Talk about how you know.

Problem Set

4. Shanika built a block tower using 14 blocks. Then, she added 4 more blocks to the tower. How many blocks are there in the tower now?

Lesson 21 Problem 4

Problem Set

6. Some yellow beads were on Tamra's bracelet. After she put 14 purple beads on the bracelet, there were 18 beads. How many yellow beads did Tamra's bracelet have at first?

Lesson 20 Problem 6

They both sound like they could match this tape diagram.

4. Shanika built a block tower using 14 blocks. Then, she added 4 more blocks to the tower. How many blocks are there in the tower now?

Lesson 21 Problem 4

6. Some yellow beads were on Tamra's bracelet. After she put 14 purple beads on the bracelet, there were 18 beads. How many yellow beads did Tamra's bracelet have at first?

Lesson 20 Problem 6

This is a tape diagram for a problem from yesterday's lesson. Which problem does this match?

Problem Set 12345

This is a tape diagram for a problem from yesterday's lesson. Which problem does this match?

- 5. Nikil's tower is 15 blocks tall. He added some more blocks to his tower. His tower
- . is 18 blocks tall now. How many blocks did Nikil add?

Lesson 21 Problem 5

Problem Set 12345

With your partner, try to come up with a different story that could go with this tape diagram. You can use your tape diagram template as you discuss your idea.

Problem Set 12345

- Listen to students as they generate their story ideas, and choose three student math stories to use as samples for the class. Present the stories in the following order:
- A story that parallels the examples using a different topic. (An add to with a change unknown problem type, where the 3 is the unknown number, e.g.,15 + ? = 18.)
- An add to with a result unknown problem type, for example, 15 + 3 = ?
- A different add to or take from with a change unknown problem or an add to with the start unknown problem, for example, 3 + ? = 18, 18 ? = 15, or ? + 15 = 18.

As the students share the problem with the class, redraw the tape diagram, label appropriately for the given story, and write the accompanying number sentences and statement.

What was similar in all of these problems?

What was different in each story problem?

How could knowing the answer to one story problem help you with a different story problem?

Problem Set 12345

Problem Set

A STORY OF UNITS	Lesson 22 Problem Set	1•4
Name	Date	

Use the tape diagrams to write a variety of word problems. Use the word bank if needed. Remember to label your model after you write the story.

Topics (No	ouns)		Actions (Verbs)	
flowers	goldfish	lizards	hide	eat	go away
stickers	rockets	cars	give	draw	get
frogs	crackers	marbles	collect	build	play

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Lesson 22: Write word problems of varied types.

Problem Set

Debrief

Look at Problem A. What story problem did you write?

Share with the class.

Pose to the rest of the class:

- What is the unknown number in the question?
- What number sentence would help you solve the question?
- How did you decide on your labels for your tape diagrams?

Debrief

Which problems were the easiest for you to think of ideas for?

Which were harder?

Why?

Debrief

Look at your Application Problems from Lessons 13– 18 and your Problem Sets from Lessons 19–21. What do you notice about your work?

What part of your word problem work has been improving?

Exit Ticket

A STORY OF UNITS		Lesson 22 Exit Ticket 1.	4
Name		Date	
Circle the 2 story prob	lems that match the tap	e diagram.	
	17		
	14	?	
a. There are 14 an	ts on the picnic blanket.	Then, some more ants came over.	
Now, there are :	17 ants on the picnic blar	iket. How many ants came over?	
b. 14 children are d	on the playground from o	ne class. Then, 17 children from	
another class ca now?	me to the playground. H	ow many children are on the playground	ł
c. 17 grapes were a	on the plate. Willie ate 1	4 grapes. How many grapes are on the	
c. 17 grapes were of plate now?	on the plate. Willie ate 1	4 grapes. How many grapes are on the	
c. 17 grapes were of plate now?	on the plate. Willie ate 1	4 grapes. How many grapes are on the	