

6th GRADE MAIN RANGEFINDER 2

It is important that you show or explain how you solved the problems on this assessment.
If you use a calculator, show how you set up the math.

1. You are going to make a green salad to take to a dinner party. The prices of the ingredients are below.

Lettuce	2 bunches cost	\$1.00
Radishes	3 bunches cost	\$0.92
Cucumbers	each	\$0.58

- a. How much will it cost to make a salad with 4 bunches of lettuce, 3 bunches of radishes, and 2 cucumbers? *Show or explain how you found your answer.*

$$\begin{array}{r}
 \$2.00 \\
 \$1.62 \\
 + \$0.46 \\
 \hline
 \$4.08
 \end{array}$$

I x them by what number then added

Development toward proficiency
of basic skills

- b. How much change will you get back if you pay with a ten-dollar bill? *Show or explain how you found your answer.*

$$\begin{array}{r}
 \$10.00 \\
 - \$4.08 \\
 \hline
 \$5.92
 \end{array}$$

I subtracted \$4.08 by \$10.00

- c. There were a total of 12 people at the dinner party. If there is enough salad for each person to have a serving, how much will each serving cost? *Show or explain how you found your answer.*

no, because there are only 9th

Limited understanding of
situation

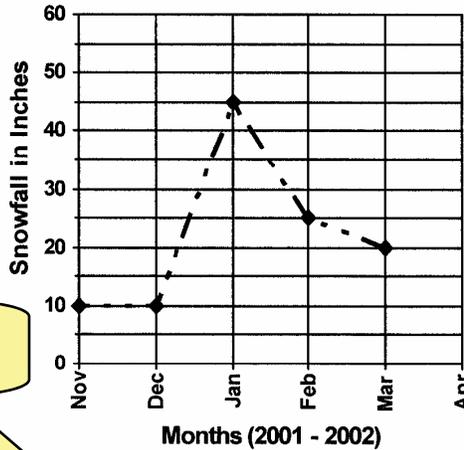
- d. One of the guests took 1/9 of the salad. Another guest took 2/9 of the salad. What fraction of the salad was taken? *Show or explain how you found your answer.*

3/9 I added the numerators together

Read problems 2, 3, 4, and 5 on this and the next two pages.
 Select three problems to answer. Answer ALL of the parts of the three problems you select to answer.
 Cross out the one problem that you do not choose to answer.

2. At Black Bear Mountain Ski Area the monthly snowfalls are shown in the following graph.

Monthly Snowfall



Development toward proficiency of basic skills

a. Use the information in the graph to find the mean (average) snowfall for the 5 months shown. Show or explain how you found your answer.

10, 10, 45, 25, 20

$$\begin{array}{r} 22 \\ 5 \overline{)110} \\ \underline{10} \\ 10 \end{array}$$

I added them all together then divided them by how many numbers

b. Use the information in the graph to find the median, mode, and range of the monthly snowfall. Show or explain how you found your answer.

median = 20
 mode = 10
 range = 27

The median is the one in the middle
 The mode is the one that occurs the most
 The range is the highest and lowest add together then divided by two

c. Using the information in the graph, predict the monthly snowfall for April and add it to the graph. Justify (explain) your prediction.

I think it will go up to fifty five cuz

It went from 10 to 45 it could go up 20 to 55

Limited understanding of situation

3. Sue is earning money for summer camp. She does chores for her neighbors and charges \$3.50 per hour.

c. In the chart below n represents the number of hours she worked at each job. Complete the chart to show how much money she earned at each job. Show or explain how you found your answer.

	Hours	Earnings per Job
	n	$\$3.50 \times n = ?$
Job 1	3	
Job 2	2	
Job 3	1	
Job 4	4	
Job 5	4	
Job 6	2	

b. What is the total amount Sue has earned for summer camp? Show or explain how you found your answer.

c. Let n represent the number of hours Sue works. If the camp costs \$126.00, write an equation, using n , to show how many more hours she needs to work to pay for camp. Solve the equation. Show or explain how you found your answer.

Limited use of symbols

4. The Appaloosa Middle School basketball team practices each week on Monday, Tuesday, and Wednesday for $2\frac{1}{2}$ hours after school.

a. If practice begins at 3:15 PM, what time does practice finish? Show or explain how you found your answer.
 3:15 I added both time together

$$\begin{array}{r} 3:15 \\ + 2:30 \\ \hline 5:45 \end{array}$$

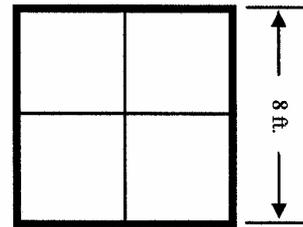
b. What is the total time they practice each week? Show or explain how you found your answer.
 230 I multiplied 2:30 by how many days

$$\begin{array}{r} 230 \\ \times 3 \\ \hline 7:30 \text{ hours they practiced} \end{array}$$

c. If students are required to practice for 10 hours before they may play in their first game, how many days will they have to practice before they qualify to play? Show or explain how you found your answer.
 4 days I just added 2:30 to 7:30 and I got 10

5. The side length of a four-square court measures 8 ft.

- a. What is the perimeter of the four-square court?
Show or explain how you found your answer.

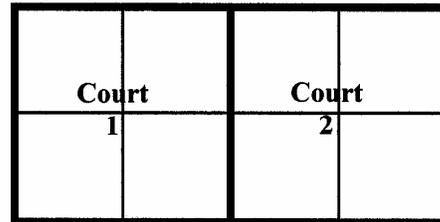


32 ft. I multiplied
how many sides by 8

Demonstrates basic use of thinking skills

- a. What would be the perimeter of the rectangle formed by 2 four-square courts if they shared one side? Show or explain how you found your answer.

32
 $\frac{16}{48}$
I multiplied $16 \times 2 = 32$
The $8 \times 8 = 16$ the
added

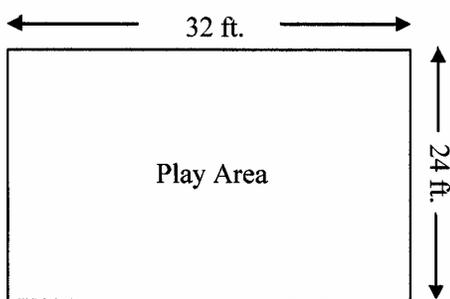


- b. What would be the area (in ft²)?
Show or explain how you found your answer?

16 ft^2 8 ft^2
cus 16 2 times
and 8 2 times

Limited use of problem-solving strategies

- d. If the play area measures 32 ft. x 24 ft., how many individual four-square courts can you fit into the area if they could share any number of sides? Show or explain how you found your answer.



3 because $3 \div 24$ is 8 and
you need 8 ft to be
the out of bound line

Limited process development;
Limited structure