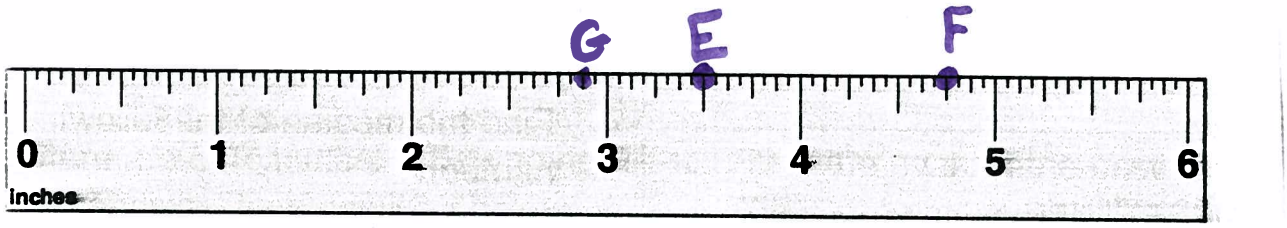
Mrs. Klein 's

Unit 10

Study Guide

Test on _____

2. On the top edge of the ruler, make a dot at $3\frac{1}{2}$ inches. Label it *E*.



3. Make a dot at $4\frac{3}{4}$ in. Label it *F*.

4. Make a dot at $2\frac{7}{8}$ in. Label it *G*.

5. What is the distance from *E* to *F*? $1\frac{1}{4}$ in.

6. From *E* to *G*? $\frac{5}{8}$ in.

7. From *F* to *G*? $1\frac{7}{8}$ in.

Complete.

8. 3 yd = 9 ft

9. 4 yd 1 ft = 13 ft

10. 1 ft 8 in. = 20 in.

11. 7 ft = 2 yd 1 ft

Use your favorite multiplication algorithm to solve the following problems. Show your work.

1.
$$\begin{array}{r} 427 \\ \times \quad 3 \\ \hline 1,281 \end{array}$$

2.
$$\begin{array}{r} 505 \\ \times \quad 8 \\ \hline 4,040 \end{array}$$

1. Circle any measurements in Column B that match the one in Column A.

Column A	Column B	
2 feet	12 in.	3 yd
	24 in.	1 yd
3 feet	36 in.	1 m
	1 yd	30 in.
2 yards	50 in.	72 in.
	6 ft	9 ft

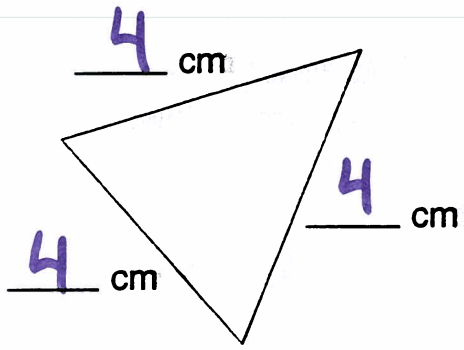
SRB 146

1. Measure the line segment to the nearest $\frac{1}{2}$ inch.

$1\frac{1}{2}$ in.

SRB 143–145

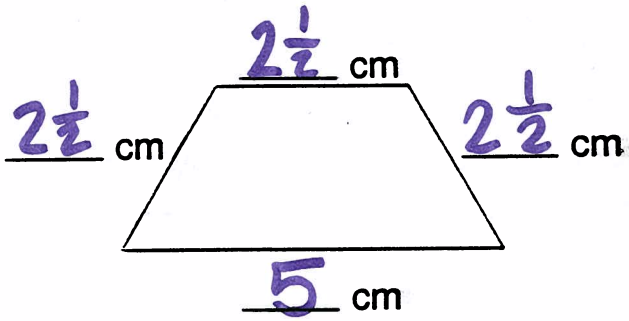
1. Measure each side of the triangle to the nearest centimeter.



Perimeter = 12 cm

SRB 137–139

1. Measure each side of the quadrangle to the nearest half-centimeter.



Another name for this quadrangle is a trapezoid.

SRB 108 109 137–139

5. There are 24 children in Mrs. Hiller's class. $\frac{1}{2}$ of the children play soccer. How many children play soccer?

12 children

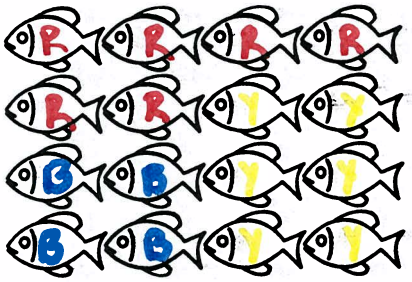
$\frac{1}{3}$ of the children play a musical instrument. How many children play a musical instrument?

8 children

SRB 24

3. Jerry has 16 fish in a tank. Color $\frac{3}{8}$ of the fish red, $\frac{1}{4}$ of the fish blue, and the rest yellow. What fraction of the fish are yellow?

$\frac{6}{16}$ or $\frac{3}{8}$



SRB 24

5. Weight in pounds of newborn babies: 11, 8, 8, 7, 6

The mean (average) weight is 8 pounds.

The median weight is 8 pounds.

SRB 80 83

solve.

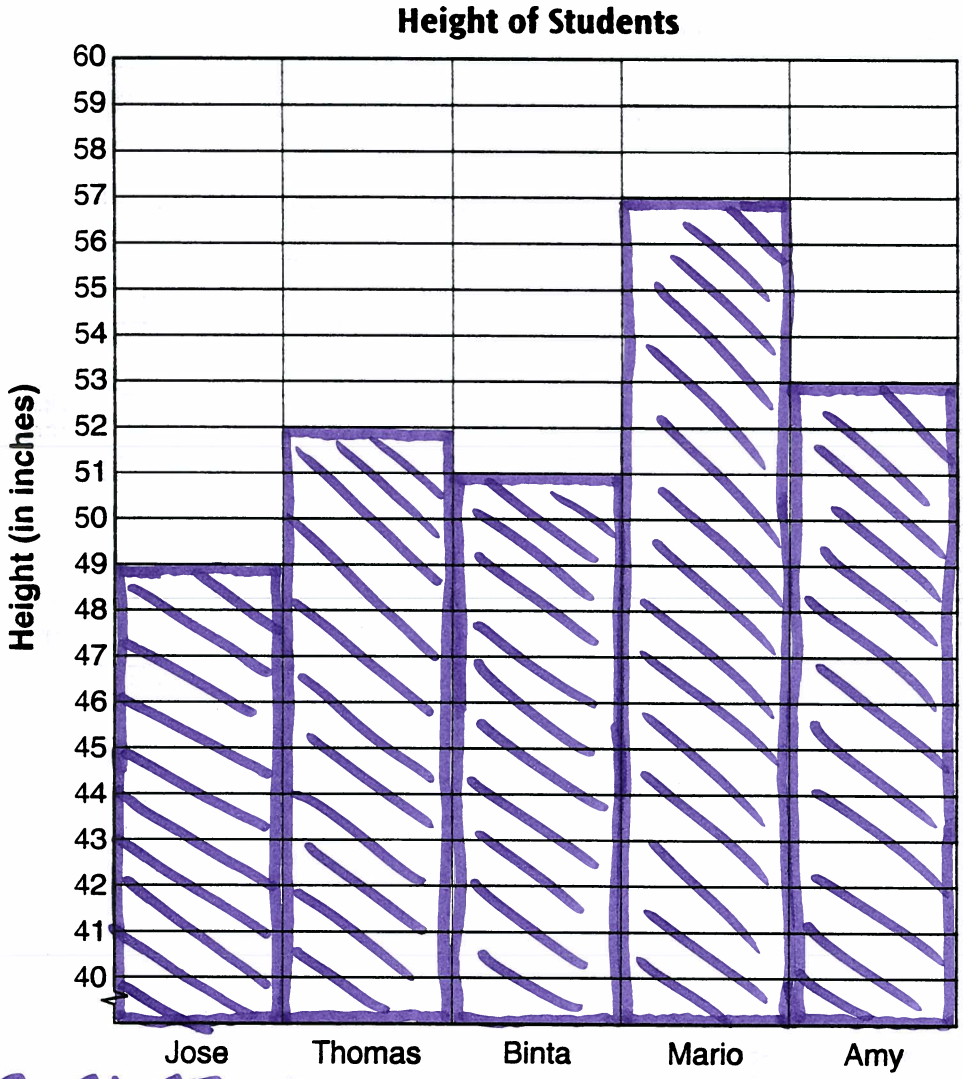
$$\begin{array}{r} {\scriptstyle 1} \\ 82 \\ \times\ 35 \\ \hline 410 \\ +2460 \\ \hline 2,870 \end{array}$$

$$\begin{array}{r} {\scriptstyle 2} \\ {\scriptstyle 2} \\ 94 \\ \times\ 76 \\ \hline 564 \\ +6580 \\ \hline 7,144 \end{array}$$

Five students recorded their heights. The data are below.

Student Names and Heights								
Jose	49 in.	Thomas	52 in.	Binta	51 in.	Mario	57 in.	Amy	53 in.

1. Use the information in the table to complete the bar graph.



49+52+51+57+53=52.4

6. What is the mean (average) height of the students? 52.4 in.

49, 51, 52, 53, 57

7. What is the median height of the students? 52 in.

8. What is the range of the heights of the students? 49-57=8 in

9. Use the information in the graph to make a frequency table of the students' heights.

Height Ranges	Tallies	Number of Students
46 to 50 inches	1	1
51 to 55 inches	111	3
56 to 60 inches	1	1

The frequency table below shows the number of school lunches bought in one week by students in different classrooms. Use a calculator to help you answer each question.

Room	Number of School Lunches Bought	
101	𝍸 𝍸 𝍸	15
102	𝍸 𝍸	10
103	𝍸 |||	8
104	𝍸 ||	7
105	𝍸 𝍸 |	11
106	𝍸	5
107	𝍸 𝍸	10
108	𝍸 |	6

1. What is the total number of school lunches bought?

   72 lunches

2. Find the **mode,** or the number that occurs most often, in the data.

   10

3. Find the **median** number of school lunches bought.

   9 lunches

4. Find the **mean** number of school lunches bought.

   9 lunches

15, 10, 8, 7, 11, 5, 10, 6

~~5~~, ~~6~~, ~~7~~, 8, 10, ~~10~~, ~~11~~, ~~15~~

Median

8+10=18÷2=9

15+10+8+7+11+5+10+6=72÷8=9

Mean