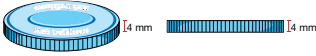


Name _____ Date _____

Stacks
Homework

Show or tell how to solve each problem. Use a calculator.

- A plastic checker is 4 mm thick. What is the thickness of the checker in cm?

- How tall is a stack of ten checkers?
 A. in millimeters? _____
 B. in centimeters? _____
- How tall is a stack of 250 checkers?
 A. in millimeters? _____
 B. in centimeters? _____
- Tanya says a stack of 221 checkers is 884 cm tall. Do you agree with Tanya? Why or why not?
- How many checkers does it take to reach a height of 264 cm?
- How tall is a stack of 50 checkers?
 A. in millimeters? _____ mm
 B. in centimeters? _____ cm
 C. in meters? _____ m

Measuring Stacks SAB • Grade 5 • Unit 8 • Lesson 1 293

Student Activity Book - Page 293

Name _____ Date _____

- Complete the table.

	Number of Checkers	Height of Stack in mm	Height of Stack in cm	Height of Stack in m
A.	50			
B.	500			
C.		80		
D.			80	
E.				80
- Complete each statement.
 - A stack of _____ checkers is 3004 mm.
 - A stack of _____ checkers is 3004 cm.
 - A stack of _____ checkers is 3004 m.
- A nickel is 1.98 mm thick. How many checkers would equal the height of \$1000 worth of nickels? Show your work.
- A quarter is 1.75 mm thick. Imagine a stack of quarters as tall as the Willis Tower (443 meters). Calculate the number of quarters in this stack. Show your work.
- How much is this stack of quarters worth?

294 SAB • Grade 5 • Unit 8 • Lesson 1 Measuring Stacks

Student Activity Book - Page 294

*Answers and/or discussion are included in the lesson.

Student Activity Book

Stacks (SAB p. 293–294)

Homework

Questions 1–11

- .4 cm = 4 mm
- A. 40 mm
B. 4 cm
- A. 1000 mm
B. 100 cm
- Possible response: I do not agree with Tanya. A stack of 221 checkers is 884 mm (221×4 mm).
- 660 checkers; $264 \times 10 = 2640$ mm, $2640 \text{ mm} \div 4 \text{ mm} = 660$ checkers
- A. 200 mm
B. 20 cm
C. 0.2 m

7.

	Number of Checkers	Height of Stack in mm	Height of Stack in cm	Height of Stack in m
A.	50	200	20	.20
B.	500	2000	200	2
C.	20	80	8	0.08
D.	200	800	80	0.8
E.	20,000	80,000	8000	80

- A. 751
B. 7510
C. 751,000
- 9900 checkers; \$1000 nickels is 20,000 nickels. $20,000 \times 1.98 \text{ mm} = 39,600 \text{ mm}$ and $39600 \text{ mm} \div 4 \text{ mm} = 9900 \text{ mm}$.
- 253,142 quarters; $443 \text{ m} = 443,000 \text{ mm}$ and $443,000 \div 1.75 \text{ mm} = 253,142.85$ quarters or 25,3142 quarters.
- $\$63,285.50$; $253,142 \times \$0.25 = \$63,285.50$