MATHCOUNTS®

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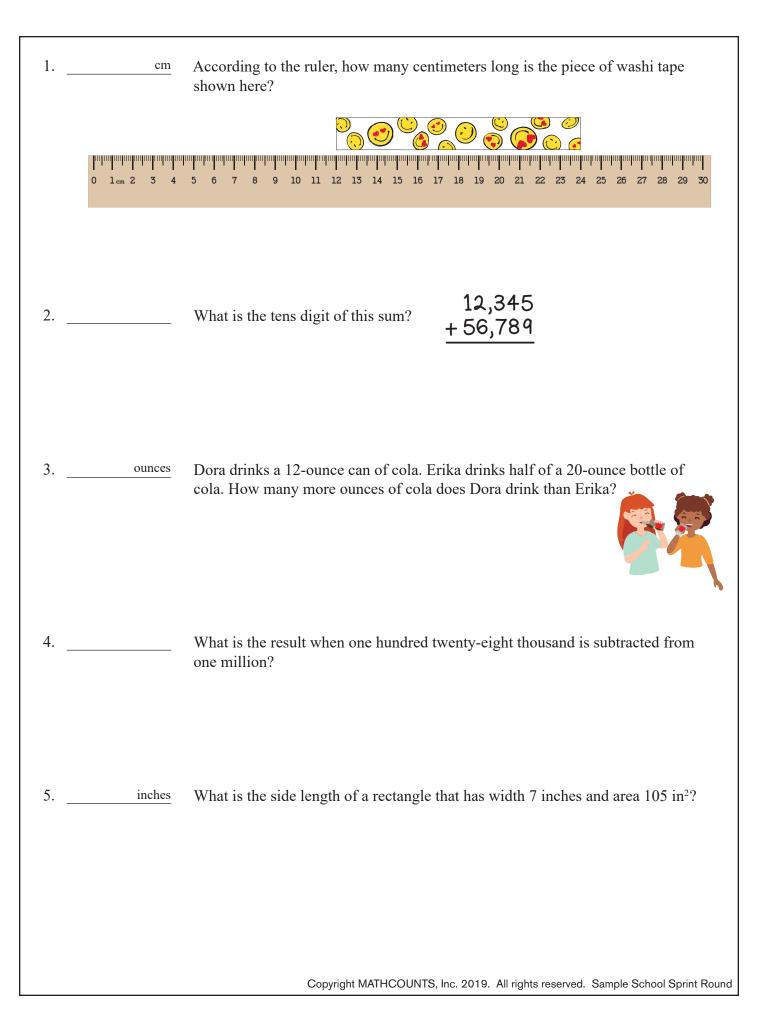
SAMPLE SCHOOL COMPETITIONSprint Round Problems 1–30

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO.

This section of the competition consists of 30 problems. You will have 40 minutes to complete all the problems. You are not allowed to use calculators, books or other aids during this round. Calculations may be done on scratch paper. All answers must be complete, legible and simplified to lowest terms. Record only final answers in the blanks in the left-hand column of the competition booklet. If you complete the problems before time is called, use the remaining time to check your answers.

In each written round of the competition, the required unit for the answer is included in the answer blank. The plural form of the unit is always used, even if the answer appears to require the singular form of the unit. The unit provided in the answer blank is the only form of the answer that will be accepted.

Total Correct	Scorer's Initials		



6.			
ο.			

What integer is closest to -7π ?

7. degrees



On Monday at 8 p.m., the temperature measured -17 degrees. Between 8 p.m. on Monday and 6 a.m. on Tuesday, the temperature increased 23 degrees. On Tuesday, between 6 a.m. and 3 p.m., the temperature decreased 5 degrees. What was the temperature on Tuesday at 3 p.m.?

STUDENT LUNCH DATA

LUNCH	ORDERS	
Pizza	132	
Nuggets	112	
Burger	88	
Spaghetti	44	
Salad	24	

This table shows all five lunch options on Friday at a middle school and the number of students that ordered each. Based on this, what percent of the lunch orders on Friday were for spaghetti?

What is the 40th positive odd integer?

10. _____ What is the value of the expression $1 + \frac{2}{1 - \frac{2}{3}}$, in simplest form?

11.	If $(x^2y^3)^2 = x^ay^b$, what is the value of $a + b$?
12 matche	scissors beat paper and two identical items result in a tie. Based on this table, which summarizes the results of Kalyani and Mark's last 200 matches, how many matches did Kalyani win?
	KALYANI Rock Paper Scissors
	ğ 30 24 20
	전 26 21 21 21 21 21 21 21 21 21 21 21 21 21
	20 20 18
13. inche	Given that a mile equals 5280 feet, how many inches are in one-sixth of a mile?
14	Maria was born on January 1, 2000. Her mother was born on January 1, 1975 and her father was born on January 1, 1970. In what year was the sum of their ages 100?
15	A bicycle that originally cost \$200 is on sale for \$140. By what percent was the price reduced?

