



SOLVE IT!

In the film *Sonic the Hedgehog*, Sonic has a special item that helps him outsmart and escape Dr. Robotnik. What is it? To find out, you have to crack the code!

PART 1: DO THE MATH

1. What is the speed of sound?
 $623 + 144 = \underline{\hspace{2cm}}$ mph

2. How high is the tallest section of the Great Wall of China?
 $414 \div 9 = \underline{\hspace{2cm}}$ feet



3. How tall is the Transamerica Building in San Francisco?
 $1,706 \div 2 = \underline{\hspace{2cm}}$ feet

4. The Shanghai World Financial Center is the world's tallest building with a hole. How tall is it?
 $908 + 706 = \underline{\hspace{2cm}}$ feet



5. In what year was the Eiffel Tower completed?
 $1,035 + 854 = \underline{\hspace{2cm}}$

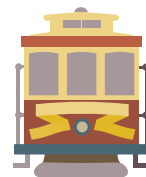
6. How long is the Great Sphinx of Giza from paw to tail?
 $1,680 \div 7 = \underline{\hspace{2cm}}$ feet



7. How fast is the world's fastest roller coaster (the Formula Rossa at Ferrari World in Abu Dhabi)?
 $94.2 + 54.9 \underline{\hspace{2cm}}$ mph

8. How tall is the Pyramid of Khafre in Giza, Egypt?
 $1,142 - 694 = \underline{\hspace{2cm}}$ feet

9. How fast does a San Francisco cable car move?
 $1.2 + 2.7 + 5.6 = \underline{\hspace{2cm}}$ mph



10. How many stations does the Paris Métro rapid transit system have?
 $1,812 \div 6 = \underline{\hspace{2cm}}$ stations

PART 2: DECODE IT

Now, use the answers above to create a letter key. Write the last digit of each answer from Part 1 on the blank next to the problem number. Then use your key to decode the answer below. Write the letter for each number on the line above it. Some letters are already filled in.

1. R = 2. A = 3. N = 4. S = 5. G =
 6. H = 7. I = 8. T = 9. E = 10. O =

What special item does Sonic use to protect himself?

Answer: 7 1 3 9 4 8 2 8 7 6 3 4 P 2 7 8 0 1 M
8 2 6 3 6 L 8 5 7 3 6 8 5 U 3 1 V 5 7 4 5



BONUS: Challenge yourself to make as many words as you can using only the letters listed in the decoding key. How many words can you make? Invite a classmate or family member to take the challenge with you!



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