

THE ROBOT PETS NUMBER CODE

Decode the clues. Find the combos. Crack the code!



TODAY'S MISSION GOALS

- Find number combinations
- Use strategy to solve
- Think like a robot engineer

DISCOVER IT: THE SECRET CODE ROOM

Bolt and Spark found locked doors! Each door opens with a number code. Use the clues to help them!

DOOR A DOOR B DOOR C

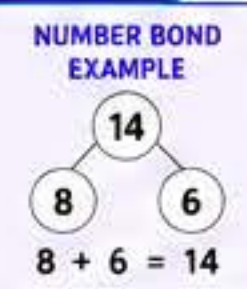
??? ? ? ? ? ?

Hmm... which code opens which door?

Remember: There can be more than one way to make a number!

BUILD IT: NUMBER BONDS EXPERT

Find two different ways to make each number. Fill in the missing numbers in the number bonds.



1 14

2 16

3 18

4 20

BONUS CHALLENGE: Can you find a third way to make any of these numbers?

CRACK IT: NUMBER CODE CHALLENGE

Each lock shows a target number. Find the missing numbers to unlock it!

1 15

2 17

3 19

4 20

Engineer Tip: When one part changes, the other part changes too!

THINK IT: STRATEGY TIME

Look at this puzzle. Find ALL the ways to make 22 using two numbers that add together.

22

Make a plan. Write your ideas down like an engineer!

1. _____ + _____ = 22

2. _____ + _____ = 22

3. _____ + _____ = 22

4. _____ + _____ = 22

How many different ways did you find?

SOLVE IT: REAL-WORLD PROBLEMS

Read carefully. Solve like an engineer!

1 Bolt has 12 robot bones. Spark finds 8 more. How many bones do they have in all?

2 Professor Pixel has 15 gears. He gives 6 to Bolt. How many gears does he have left?

3 There are 18 robot screws on the table. 7 are blue and the rest are silver. How many silver screws are there?

BONUS INVENTOR QUESTION

If you have 9 red gears and 11 blue gears, how many gears do you have altogether?

CREATE IT: DESIGN A CODE LOCK

Design your own secret code lock! Pick a number between 15 and 25. Create a lock and write two different ways to make your number!

DRAW YOUR CODE LOCK HERE

WAY 1

WAY 2

Challenge your family! Can they crack your code?

MISSION COMPLETE!

You crushed the code, Cadet Ken! You think like a real robot engineer!



COMMANDER SAGE NOTES

What I did well: _____

Something new I learned: _____

A strategy I used: _____

What I want to try next: _____

Great work, Cadet! Your brain is AMAZING!