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For the Student



Figure it out teaches you how to solve problems. In each lesson, you will learn a different way to solve problems. There are five problems in each lesson. Your teacher will ask you questions to help you think about three problems in each lesson. Two problems in each lesson are for you to do on your own. These two problems give you practice using a way to solve problems. Ideas your teacher gives for solving the problems will help you.

When you finish **Figure it out**, you will have learned six different ways to solve maths problems. Some of the things you learn will help you in school and in your everyday life.

When you Use this Booklet

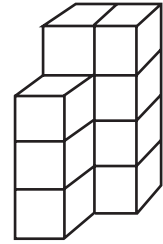
- Your teacher will read each problem to you.
You should read the problem to yourself, too.
- There are questions after many problems. Think about these questions. They will help you understand the problem. They can also help you find the answers to problems.
- To work out the problems, you can write anywhere in **Figure it out**. Try to write on the page that has the problem you are doing.
- Check your answers after you solve a problem.
Be sure your answers make sense.
- Write the answers to problems in the spaces marked **Answer**.

Figure it out was prepared for students by Sandra R. Cohen.

Act it out



1. The tower in the picture is made out of blocks.
How many blocks do you need to build the tower?



Questions: Think first, then write the answers.

- a. Can you see all the blocks you need to use? _____

How do you know that? _____

- b. How many blocks are in the short part of the tower?

Can you see all the blocks in the short part of the tower?

- c. How many blocks are in the tall part of the tower?

How many blocks do you think you cannot see in the tall part of the tower? _____

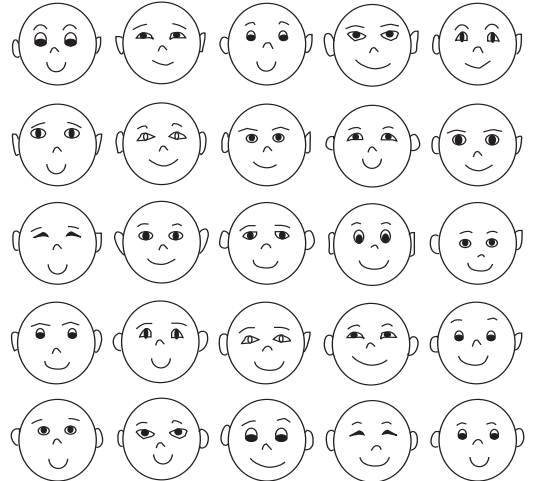
Use blocks to build the tower. Make sure your tower looks like the picture. Count the blocks you used.

Answer: You need _____ blocks to build the tower.

Use a Picture



1. There are 25 children in Mrs Thayer's class.
 The children sit in rows. There are 5 children in each row. There are 2 boys and 3 girls in each row. How many boys are in the class?
 How many girls are in the class?



Questions: Think first, then write the answers.

- a. Do you think there are more boys or more girls in the class? _____ Why do you think so?

- b. How many girls are in the first row? _____

How many boys are in the first row? _____

Use the picture. Show the boys and girls in the first row.

Write a **B** or a **G** on each face.

- c. How many girls are in the second row? _____

How many boys are in the second row? _____

Write a **B** or a **G** on each face in the second row.

- d. In 2 rows, there are 10 children. How many are boys? _____ How many are girls? _____

Write a **B** or a **G** on the rest of the faces. Remember, there are 2 boys and 3 girls in each row.

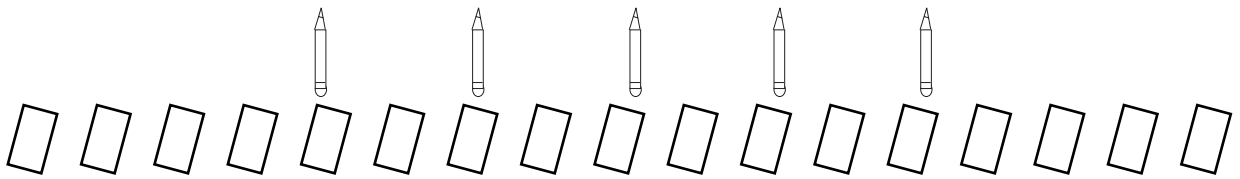
Answer: There are _____ boys and _____ girls in Mrs Thayer's class.

2. Frank buys notebooks at Lisa's Shop. He gets 1 free pencil for every 3 notebooks he buys. Today he got 5 free pencils. How many notebooks did Frank buy?

Questions: Think first, then write the answers.

a. How many pencils does Frank get if he buys 3 notebooks?

Use the picture. Circle 3 notebooks. Draw a line from the 3 notebooks to 1 pencil.



b. How many notebooks did Frank buy if he got 2 pencils?

c. Do you think Frank bought more than 10 notebooks?

_____ Why do you think so? _____

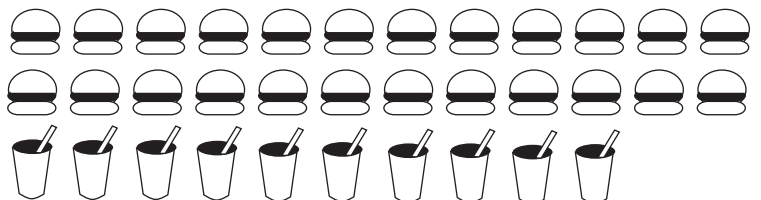
Use the picture. Circle groups of 3 notebooks. Draw a line from each group of notebooks to 1 pencil.

Answer: Frank bought _____ notebooks.

On your Own

3. Roshi's Burgers gives away 1 free drink if a family buys 4 burgers. The Turner family will buy 24 burgers for a party. How many free drinks will the Turners get?

Use the picture. Find the answer.



Answer: The Turners will get _____ free drinks.

2. Morgan has 7 coins. She has five-cent, ten-cent and twenty-cent coins. Altogether she has 75¢. What coins does Morgan have?

Questions: Think first, then write the answers.

a. How many five-cent coins does Morgan have? _____

How did you figure that out? _____

b. How many other coins does Morgan have? _____

c. How much money would Morgan have if all of her other coins were five-cent coins? _____

d. How much money would Morgan have if all of her other coins were ten-cent coins? _____

Use five-cent, ten-cent and twenty-cent coins to show 75¢. Did you use 7 coins? If not, try again until you use 7 coins to show 75¢.

Answer: Morgan has _____ five-cent, _____ ten-cent and _____ twenty-cent coins.

On your Own

3. Sasha has 60¢. She has five- and ten-cent coins. She has the same number of fives and tens. How many of each coin does she have?

Use play or real coins to find the answer.

Answer: Sasha has _____ five-cent and _____ ten-cent coins.

