

Name: \_\_\_\_\_

**Secret Mission:** You have been hired to develop and evaluate robots' math skills. Sometimes, they give thorough, correct explanations. However, they occasionally go haywire.

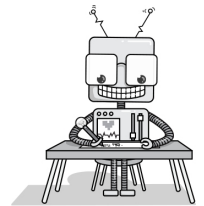
Robot Rob was given a math problem to solve.

A number greater than zero, but less than 18 has some factors.

Two of its factors are 4 and 6. Can you name at least one number that fits this?

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Robot Rob thinks this might be the answer:

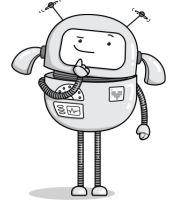


Yes, one such number could be 12.

Robot Rob did not explain too much. How do you think Robot Rob could have shown his work better?

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He is not sure that is correct, so he asked Robot Rita for help. This is how she tries to solve the problem.



Yes, the number could be 12, for example, as 12 is a number greater than zero and less than 18 and has 4 and 6 among its factors. You solve this by thinking of numbers that are within the stated range and can be evenly divided by both 4 and 6.

If you were the teacher, how would you grade Robot Rita's work? Explain and also make comments in Robot Rita's work.

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Hint: EdHelper's answer pages gave this answer.

12

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Now that you have seen edHelper's answer and how Robot Rob and Robot Rita tried to solve this problem, how would you solve it? Show your steps and explain.

A number greater than zero, but less than 18 has some factors. Two of its factors are 4 and 6. Can you name at least one number that fits this?

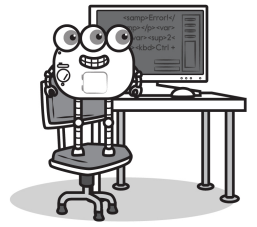
**Name:** \_\_\_\_\_

Now it's your turn. You've seen how the robots tried to solve this problem, and you corrected their work. Now you try doing it!

A number greater than zero, but less than 22 has some factors. Two of its factors are 3 and 7. Can you name at least one number that fits this?

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Robot was given a math problem to solve.



Rose collects cards with jokes on them. She had 53 cards. She gave 12 cards to Erin and 15 cards to Hunter. How many cards does she have left?

Robot wrote this program in Python to solve it.

```
rose_cards = 53
erin_cards = 12
hunter_cards = 15

rose_cards_left = rose_cards - (erin_cards + hunter_cards)
print(rose_cards_left)
```

Robot's program will print the answer to the math problem.

What will the program print out?



### Hints and Questions

After Robot's program is done, the variable `erin_cards` will have a value in it. What value does it have?

In the program, "`rose_cards`" is called a variable.

It is used to store a value. Name two other variables used in the program.

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Which number is a 3-digit even number?

12, 14, 16, 18, 20,  
\_\_\_\_\_, 24, 26, 28

Is 17 a composite or a prime number?

33 is a multiple  
of 11 and 3.

22 is a multiple  
of \_\_\_\_ and \_\_\_\_.

15 is a multiple  
of \_\_\_\_ and \_\_\_\_.

In the equation  $25 \times 407 = 10,175$ , which number is the product?

Rosa gave out a survey.  
The answers she got back  
were 18, 7, 10, 8, and 18.  
What is the range of these  
numbers?

$$\_\_\_ \div 11 = 12$$

What is the sum of 10 and 173?

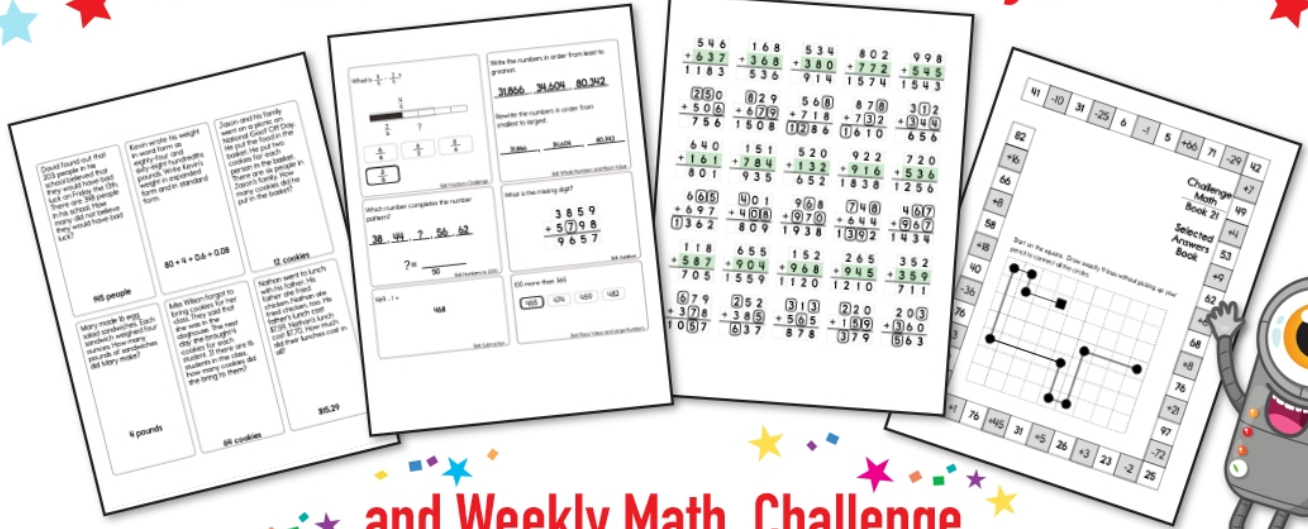
How many hundreds are in the number 23,000?

What is 16 less than 1,499?

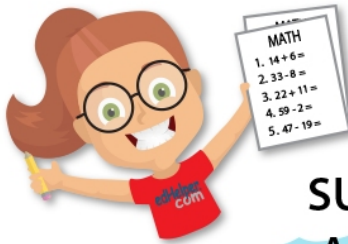
Write the greatest possible 5-digit number using only 3 different numbers.

$$4 + 36 \div 3$$

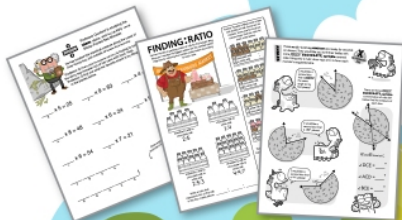
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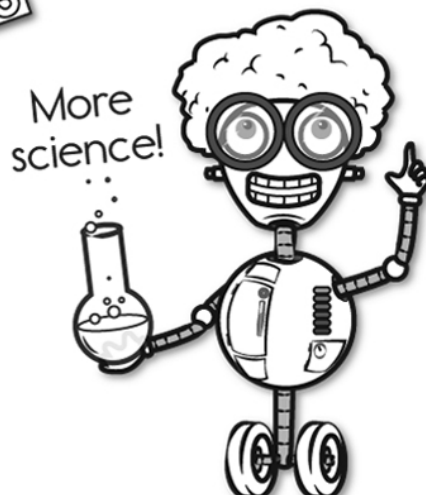
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