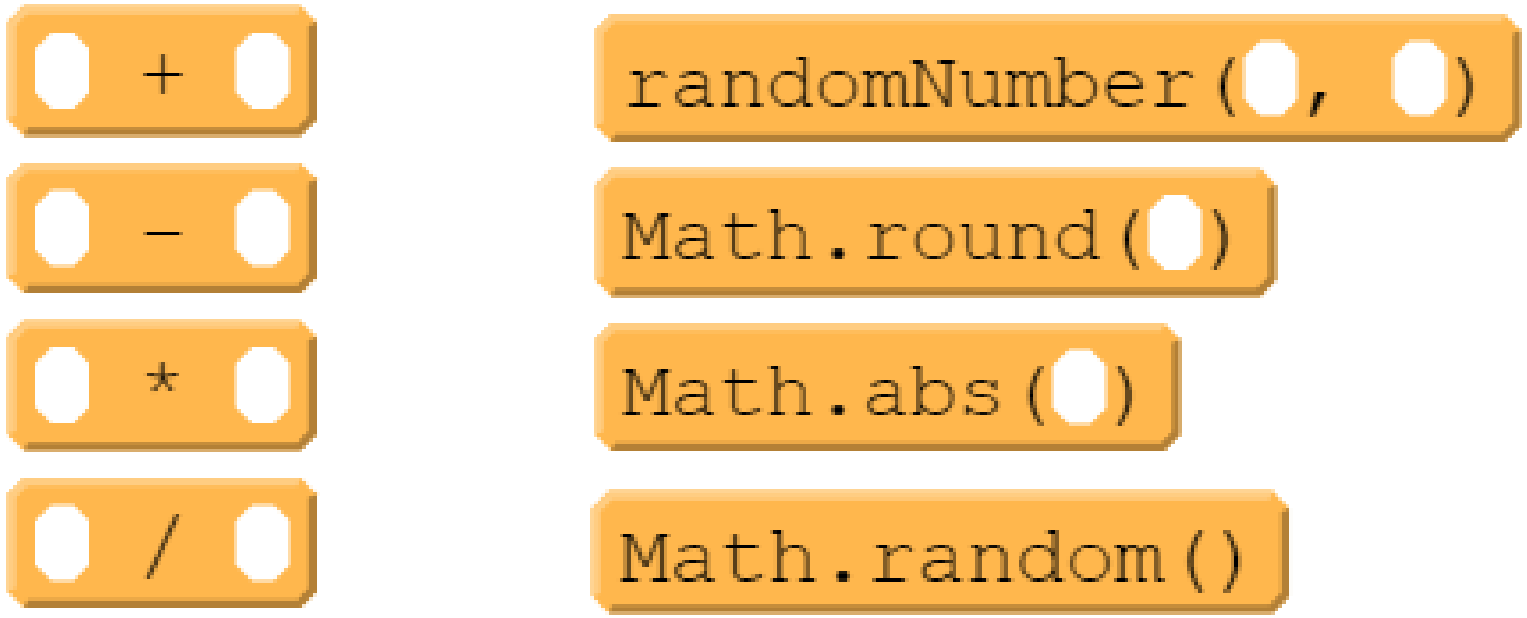
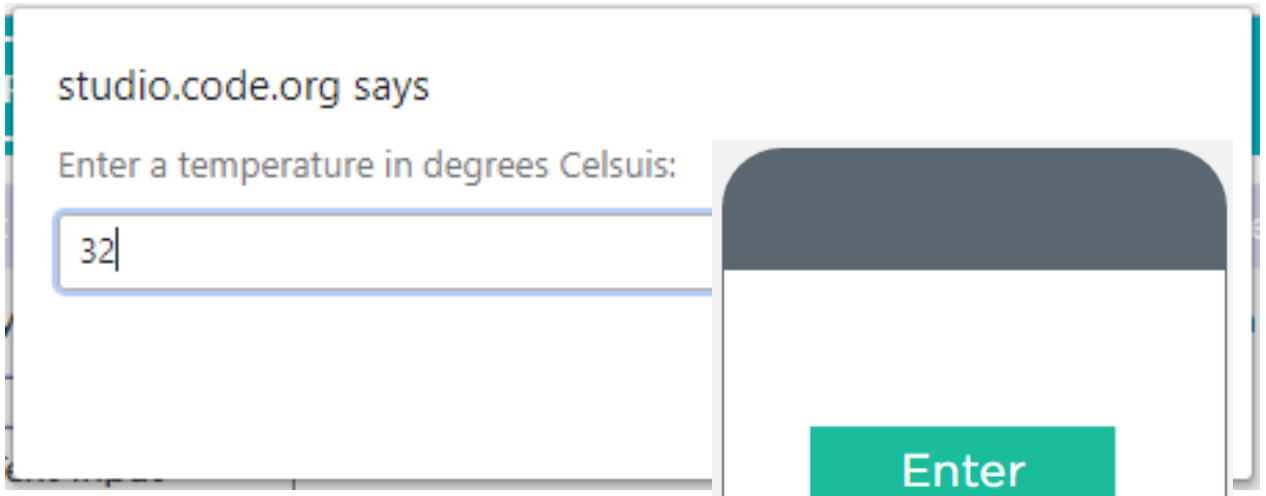
Math Operations

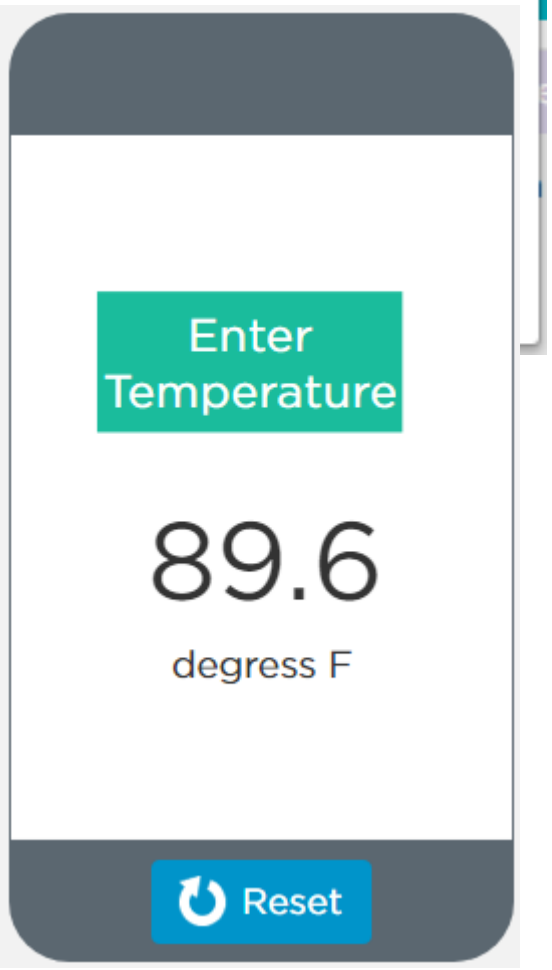
Functions in Javascript

These are math functions in AppLab:





This app gets a temperature (Canadian) and coverts it to the American scale.



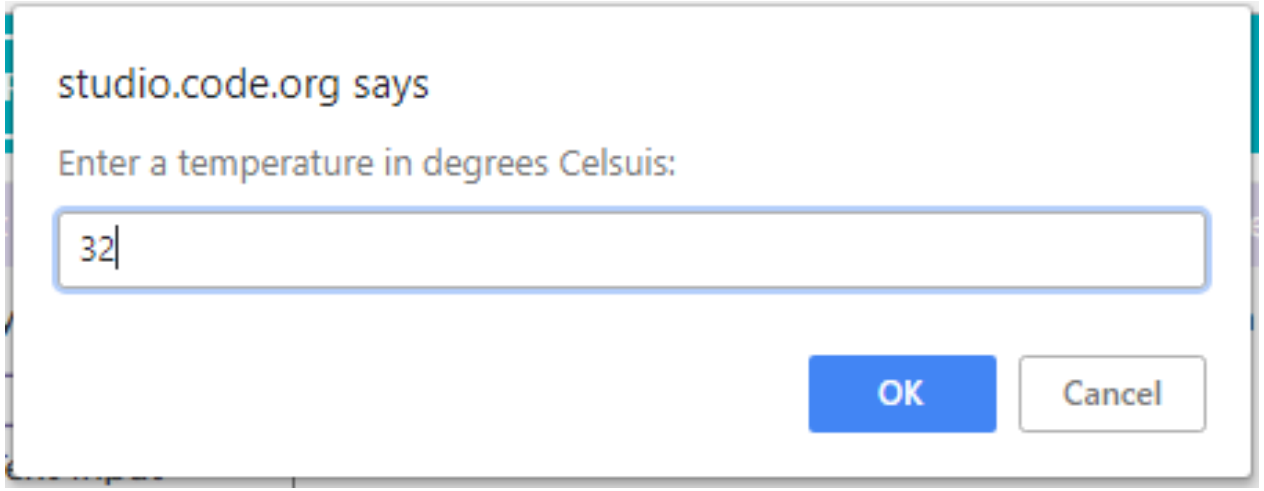
```
onEvent("temp", "click", function(event) {
    var cel = promptNum("Enter a temperature in degrees Celsuis:");
    var fahr = 9*cel/5+32; ;
    setText("ans", fahr);
} );
```

What is the id of the button that is clicked?

```
onEvent("temp", "click", function(event) {
  var cel = promptNum("Enter a temperature in degrees Celsuis:");
  var fahr = 9*cel/5+32;;
  setText("ans", fahr);
});
```

cel 32

fahr ?



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onEvent("temp", "click", function(event) {
    var cel = promptNum("Enter a temperature in degrees Celsuis:");
    var fahr = 9*cel/5+32;;
    setText("ans", fahr);
});
```

cel 32

fahr 89.6

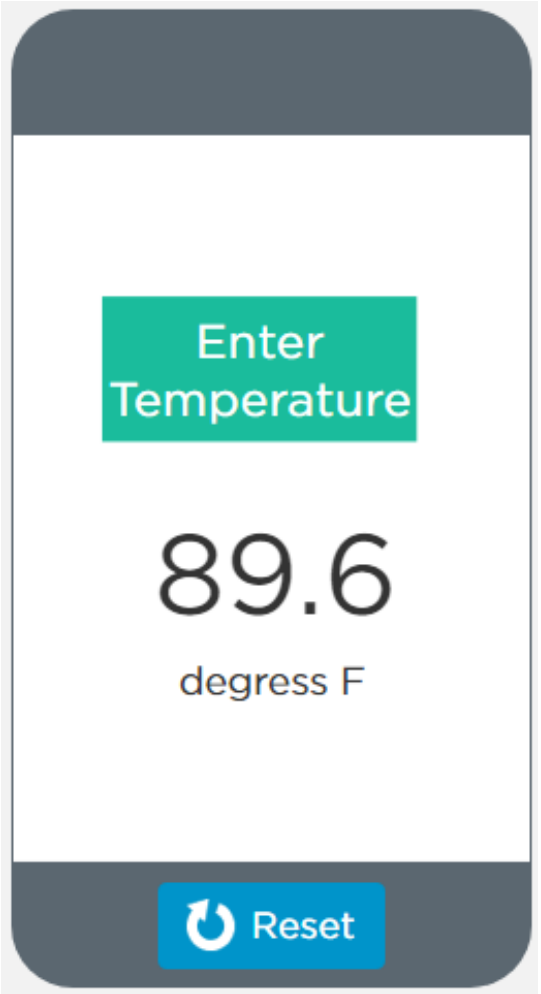
Which operation occurred first: *, / or +?

```
onEvent("temp", "click", function(event) {
    var cel = promptNum("Enter a temperature in degrees Celsuis:");
    var fahr = 9*cel/5+32; ;
    setText("ans", fahr);
} );
```

cel 32

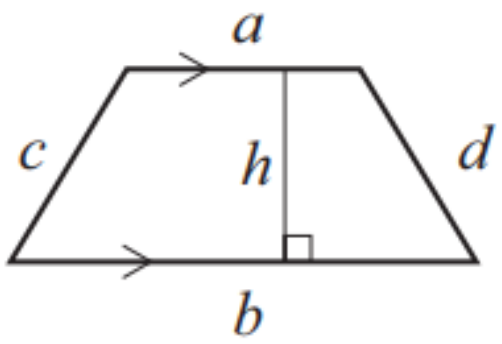
fahr 89.6

What is the name of the widget that got updated?

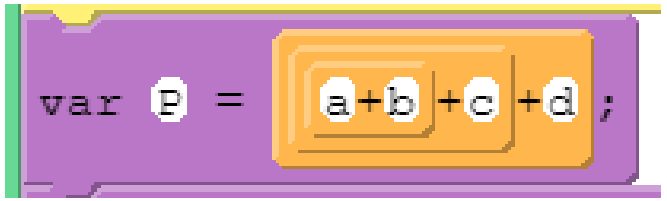


Some EQAO formulas translated into AppLab

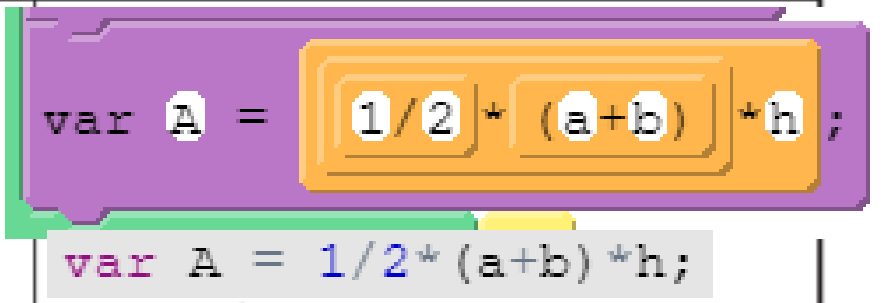
Trapezoid



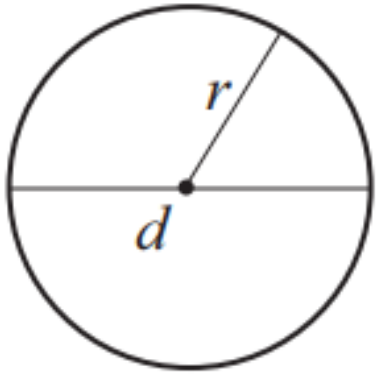
$$P = a + b + c + d$$



$$A = \frac{1}{2}(a + b)h$$



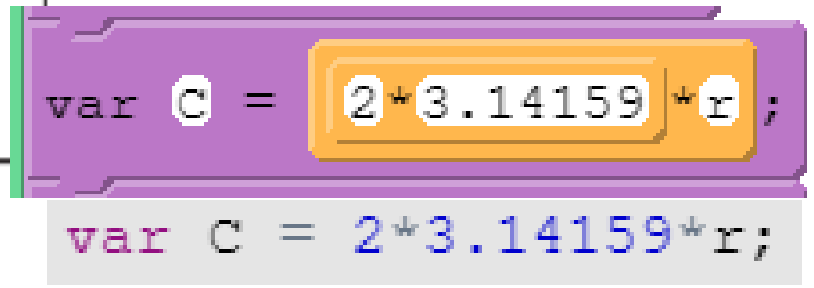
Circle



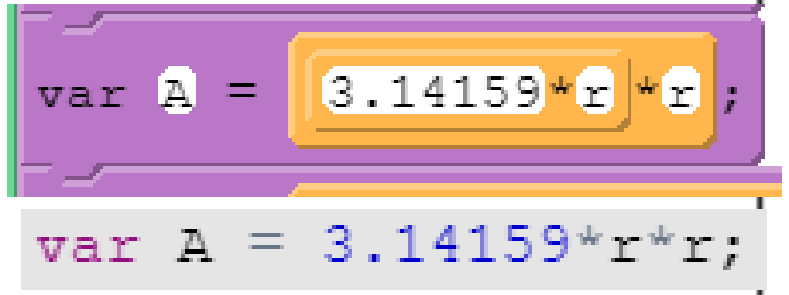
$$C = \pi d$$

or

$$C = 2\pi r$$



$$A = \pi r^2$$



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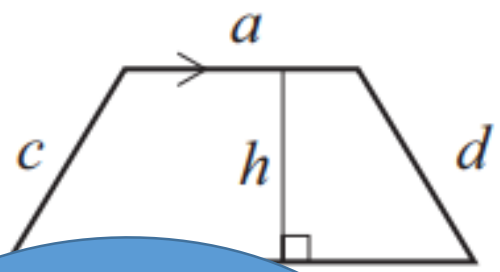
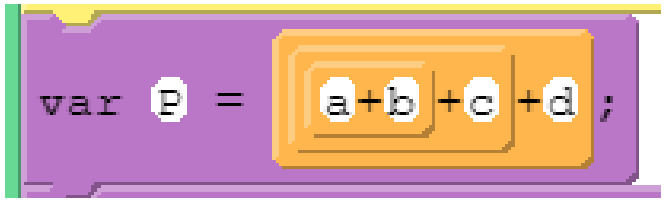
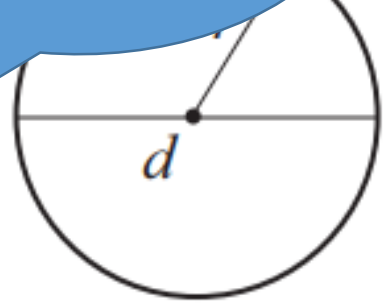


How do you write π?

$P = a + b + c + d$



$A = \frac{1}{2}(a + b)h$



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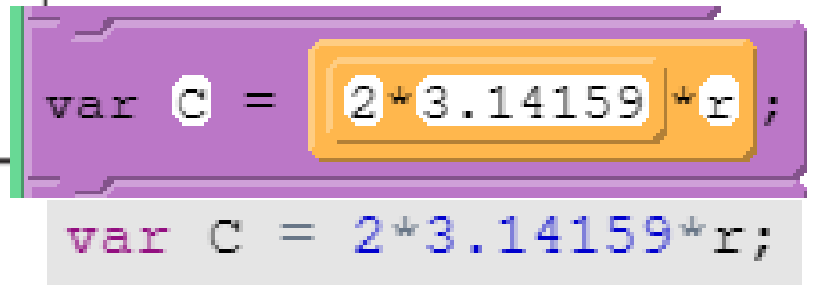
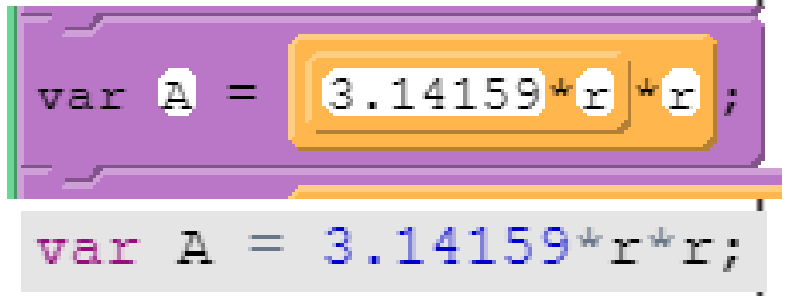


$A = \pi r^2$



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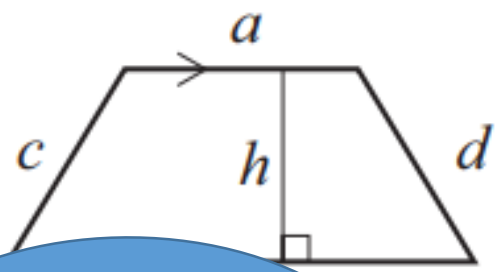
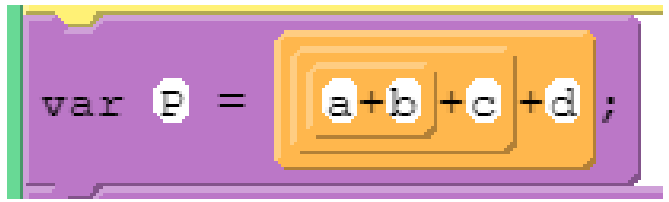
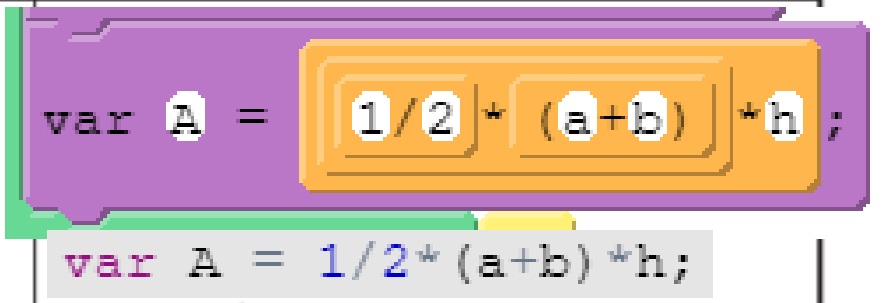


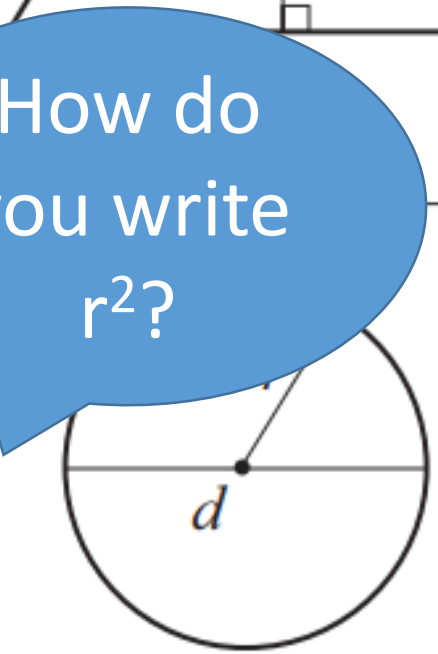
How do you write r^2?

$P = a + b + c + d$



$A = \frac{1}{2}(a + b)h$





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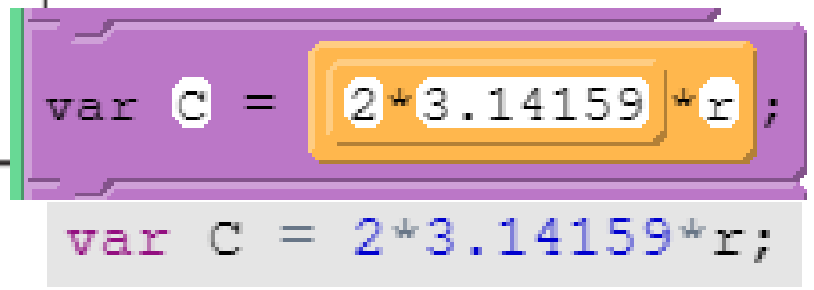

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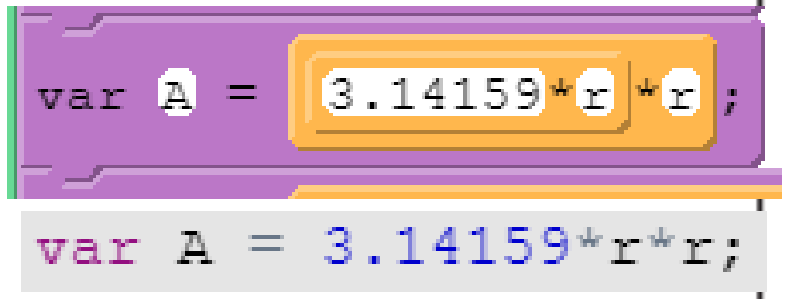

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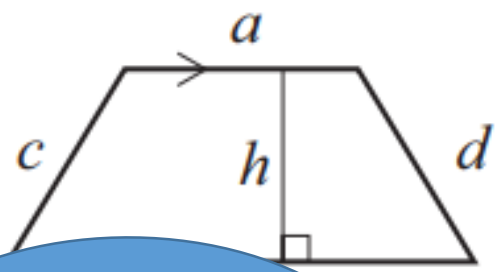
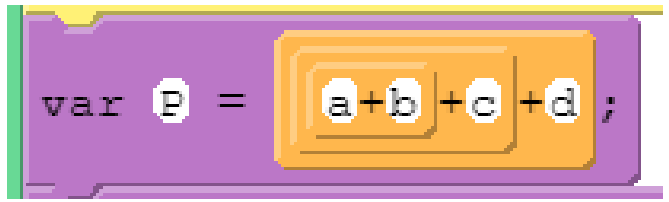


How do you write $^1/_2$?

$P = a + b + c + d$



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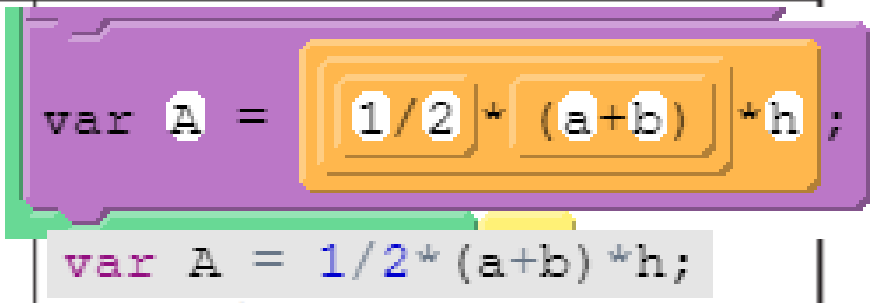

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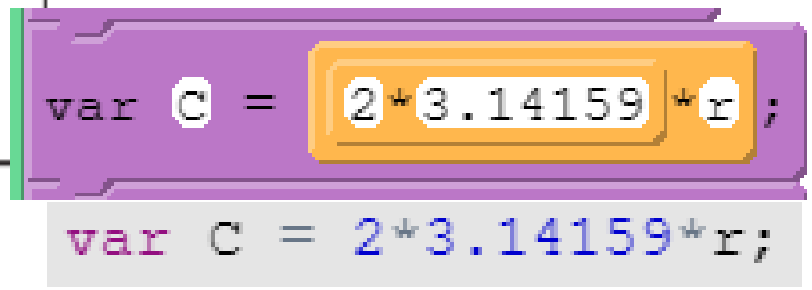

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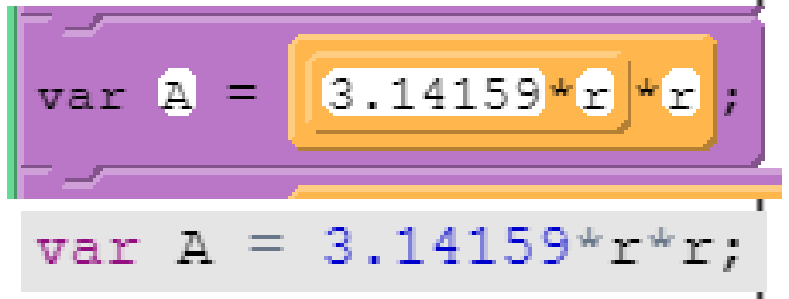
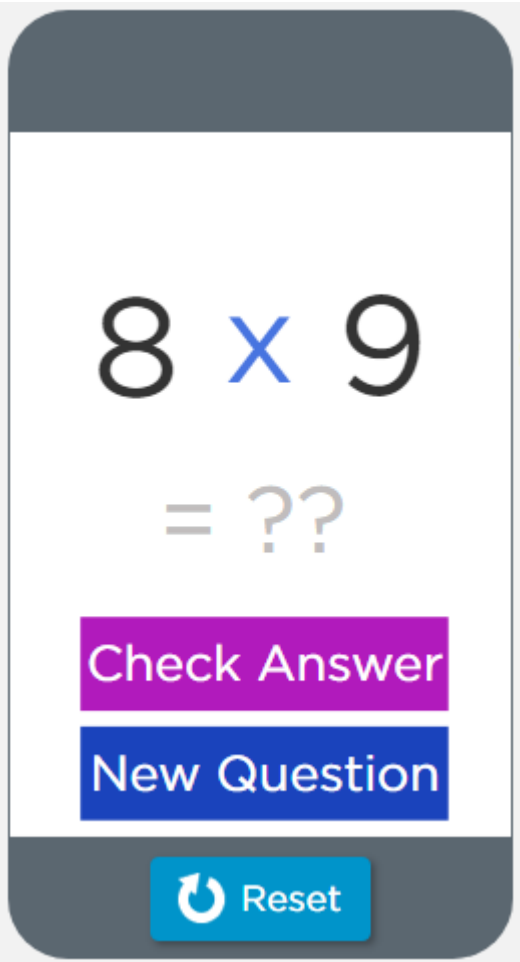
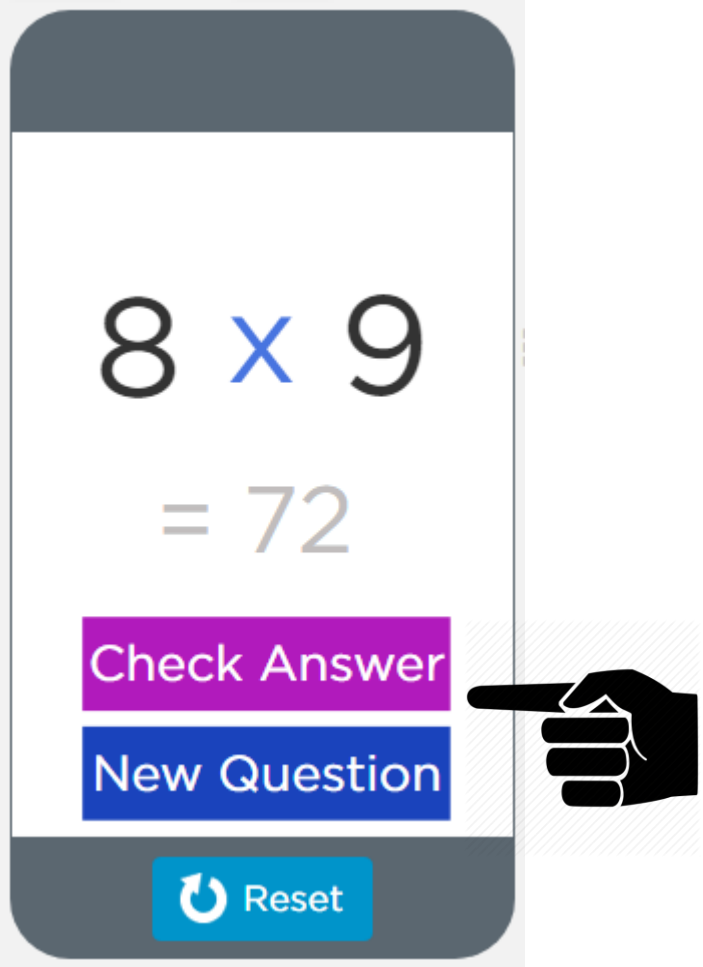
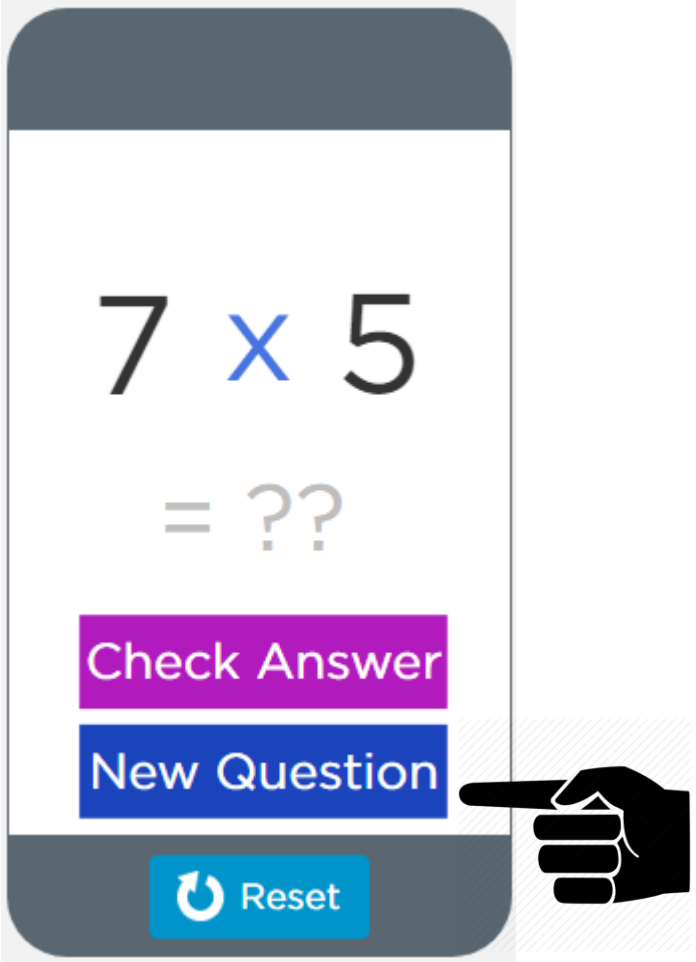


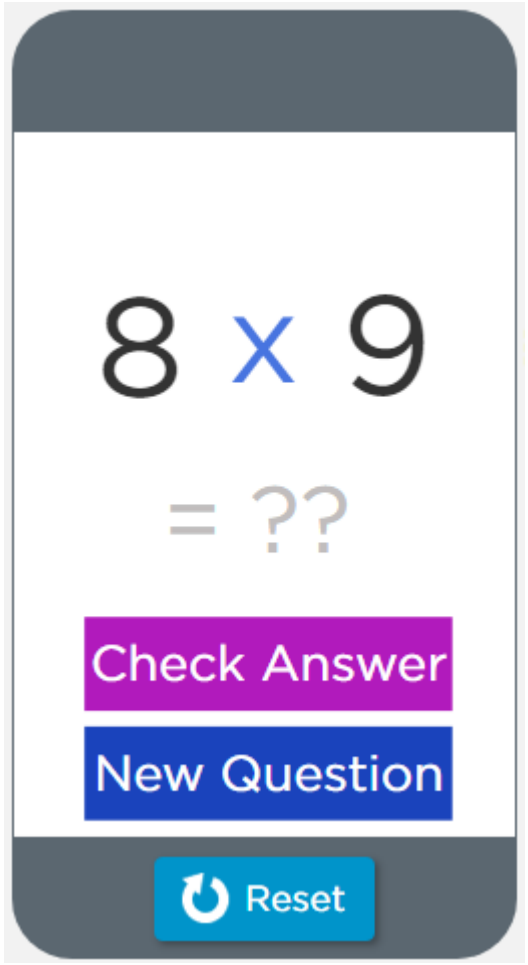
The Flashcard App allows you to practice your number facts.
You think of the answer and check if you are right.







Another button allows you to get a new question.



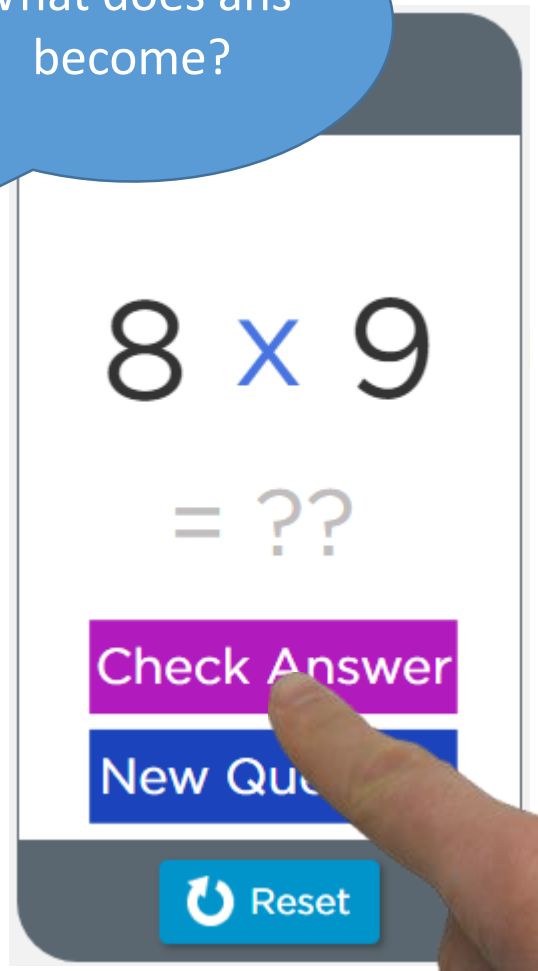

```
1  var n1 = 8;
2  var n2 = 9;
3  onEvent("check", "click", funct
4      var ans = n1 * n2;
5      setText("answer", "= "+ans);
6  });
7
8  onEvent("newQ", "click", function(event) {
9      n1 = randomNumber(1, 9);
10     n2 = randomNumber(1, 9);
11     setText("number1", n1);
12     setText("number2", n2);
13     setText("answer", "= ??");
14 });
15
```

What two variables exist at the start?

n1 8

n2 9

What does ans become?

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```
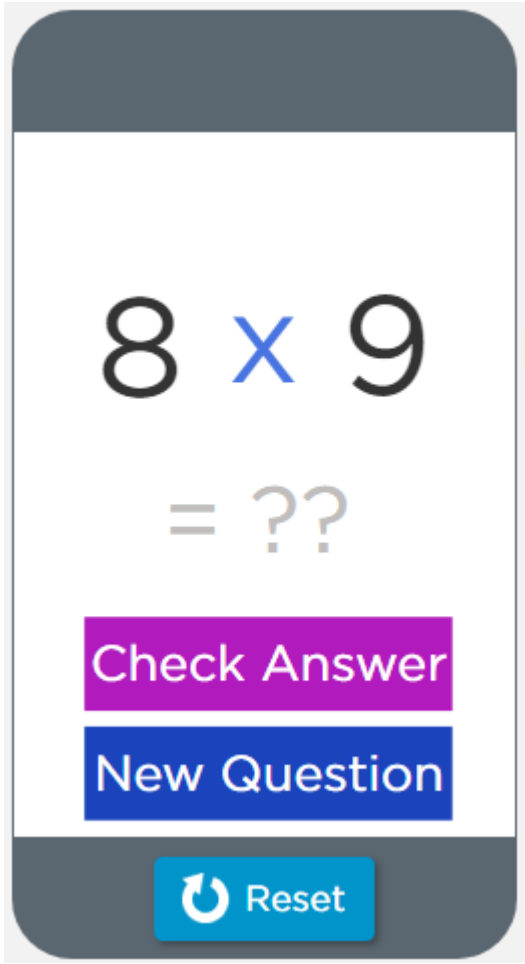

ans ?

n1 8

n2 9

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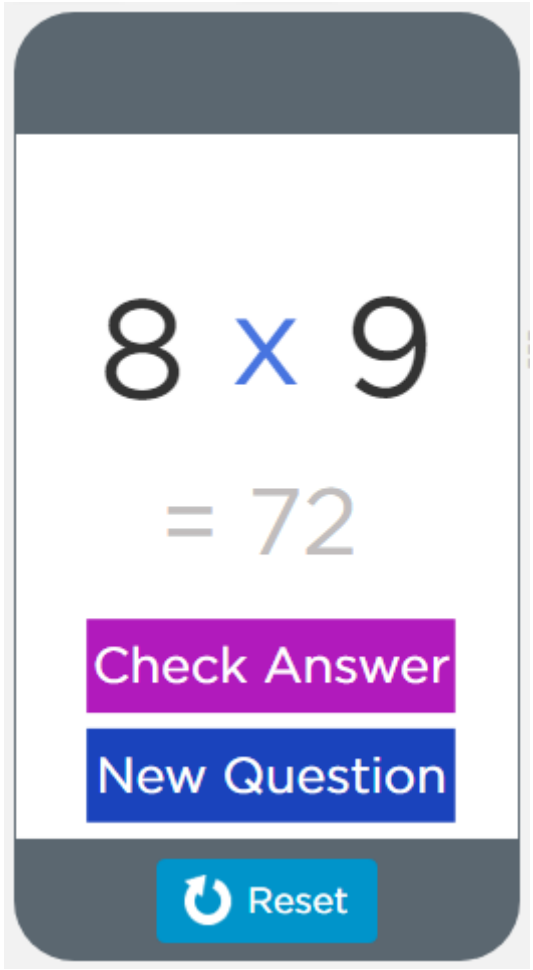
```

What widget is changed on the screen?

ans 72

n1 8

n2 9

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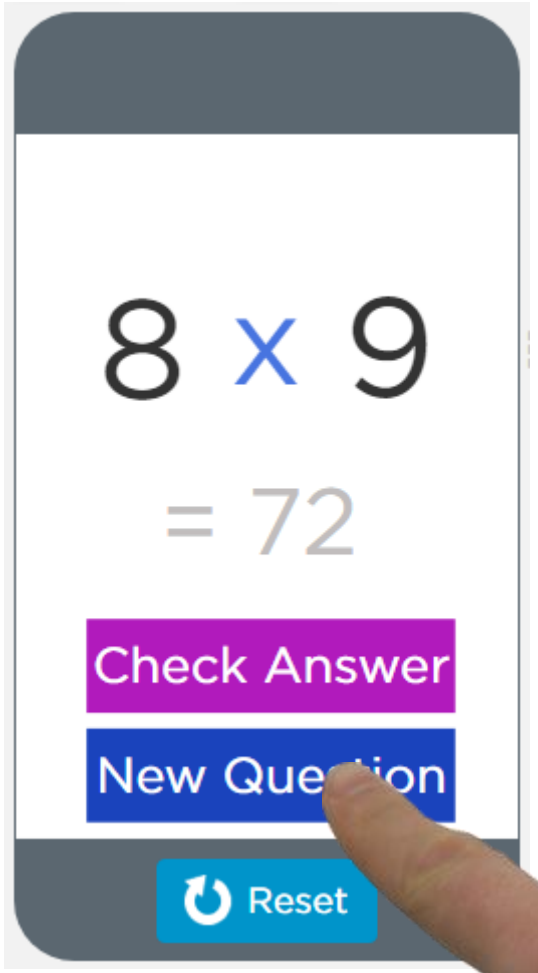


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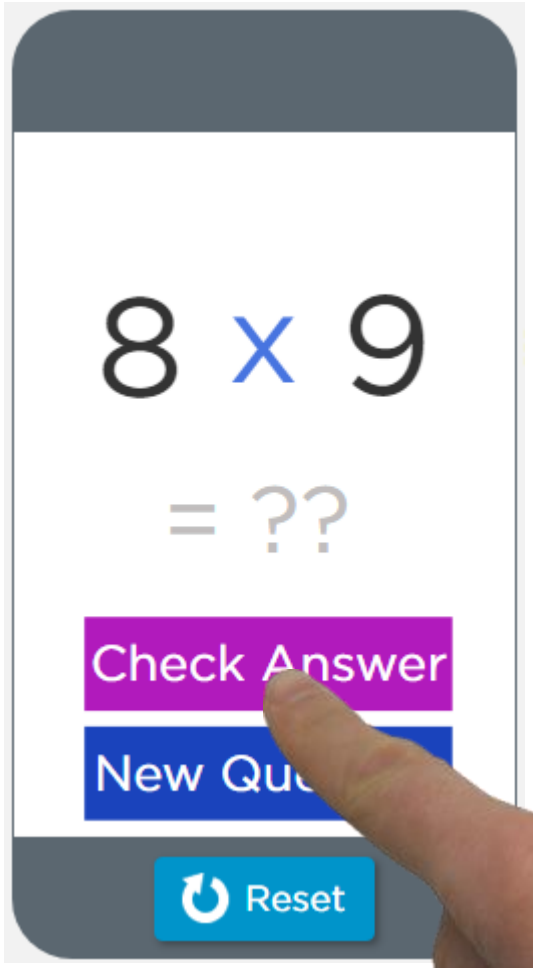
n2 9

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ans

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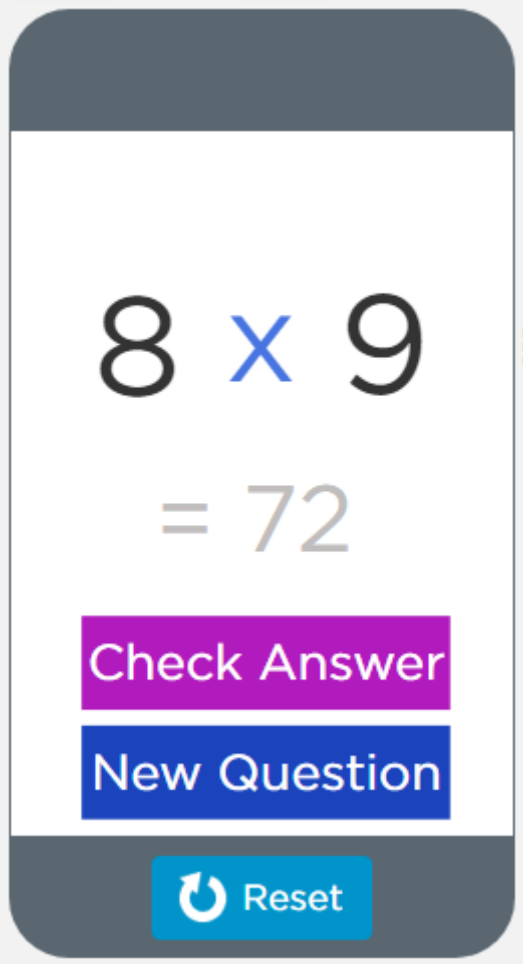


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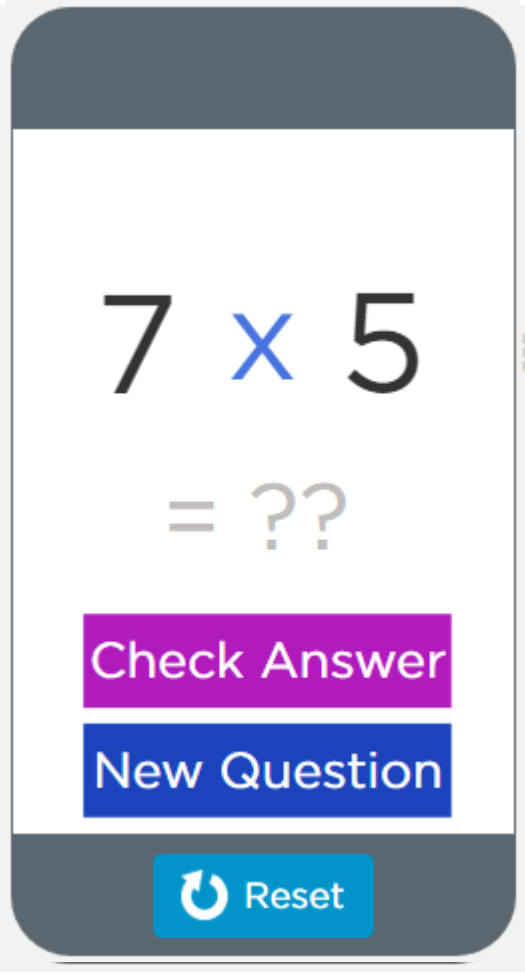
What new values did the computer pick for n1 and n2?

n1 7

n2 5

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11     setText("number1", n1);
12     setText("number2", n2);
13     setText("answer", "= ??");
14 });
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```

What three labels are changed on the screen?

n1 7

n2 5