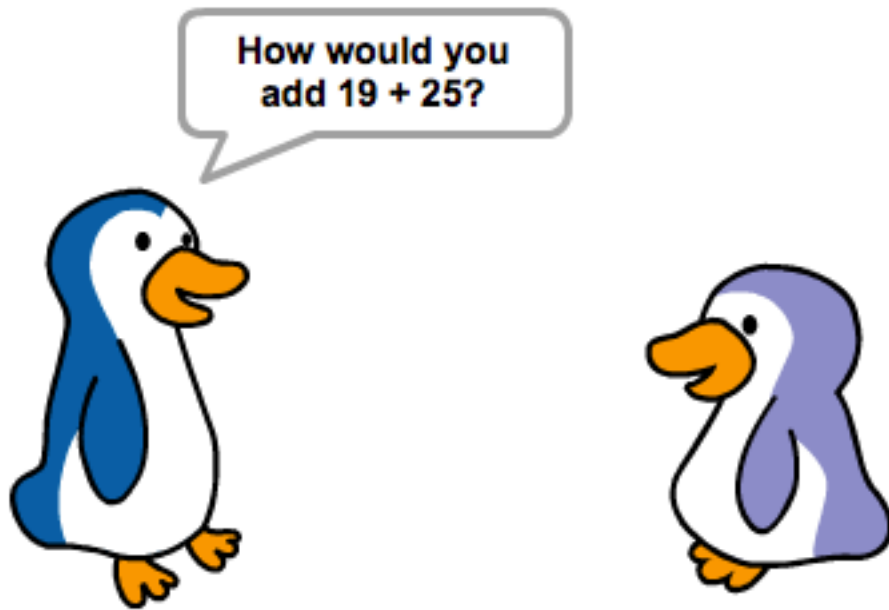


Dialogues & Quizzes with Scratch



Name: _____

Teacher: _____

Mental Math dialogue



Hello!
How would you add $19 + 25$?

I would first add 20 and 25

Oh ... I see ...
... then subtract the extra 1?

Yes.
 $20 + 25 = 45$
 $45 - 1 = 44$

Can you think of a different
way?

Add 10 and 20 to get 30

And add 9 and 5 to get 14?

Yes.
So 30 and 14 is 44

That's cool!
We get the same answer!

19 + 25 = ??



```
when green flag clicked
  say Hello! for 2 secs
  say How would you add 19 + 25? for 3 secs
  broadcast message1

when I receive reply1
  say Oh ... I see ... for 3 secs
  say ... then subtract the extra 1? for 2 secs
  broadcast message2

when I receive reply2
  say Can you think of a different way? for 4 secs
  broadcast message3

when I receive reply3
  say And 9 and 5 to get 14? for 4 secs
  broadcast message4

when I receive reply4
  say That's cool! for 3 secs
  say We get the same answer! for 3 secs
```

```
when I receive message1
  say I would first add 20 and 25. for 4 secs
  broadcast reply1

when I receive message2
  say Yes. for 2 secs
  say 20 + 25 = 45 for 3 secs
  say 45 - 1 = 44 for 4 secs
  broadcast reply2

when I receive message3
  say Hmm ... add 10 and 20 to get 30 for 4 secs
  broadcast reply3

when I receive message4
  say Yes for 2 secs
  say So 30 and 14 is 44 for 4 secs
  broadcast reply4
```

Mental Math dialogue – write your own



Hello!
How would you add _____?

Mental Math Quiz

<https://scratch.mit.edu/projects/131536576/#editor>

score 0

number1 19

number2 15

Solve 5 addition problems to get 5 points!



The image shows the Scratch code editor for a mental math quiz. The script is as follows:

```
when green flag clicked
  set score to 0
  say "Solve 5 addition problems to get 5 points!" for 5 secs
  repeat 5
    set number1 to pick random 10 to 20
    set number2 to pick random 10 to 20
    set sum to number1 + number2
    ask "What is the sum of the two numbers?" and wait
    if answer = sum then
      change score by 1
      say "Good work! You get a point!" for 5 secs
    else
      say "Oops!" for 2 secs
```

The right-hand panel shows the 'Scripts' tab with the 'Data' category selected. Under 'Make a Variable', the variables 'number1', 'number2', and 'score' are checked, while 'sum' is unchecked. Below this, there are four variable blocks: 'set score to 0', 'change score by 1', 'show variable score', and 'hide variable score'.

REFLECT

What did you learn?

How did you feel?

What else would you like to know?

SHARE AT HOME

Dear Parent,

Please ask your child to share with you what they learned about geometry and coding. Please complete and return to their teacher. Thank you!



What did your child share with you?

What did you learn?

Please use the next page if you need more space →