# Set and Change Everyday Variable Scaffold Prompts

Set a variable is like emptying a box and putting a new item inside.

Changing a variable is adapting the current value.

Change variable by 2 would add 2

Change variable by –2 would subtract 2

**Either** Pupils work in pairs to question each others understanding of these simple numerical set and change algorithm examples

**Or**

Teachers use these for formative assessment questioning purposes

**Complexity**

Pages 2-5 are the easiest as they only use set variable examples.

Pages 6-12 are more complex as they include set and change variable examples.

1, Act out the algorithm

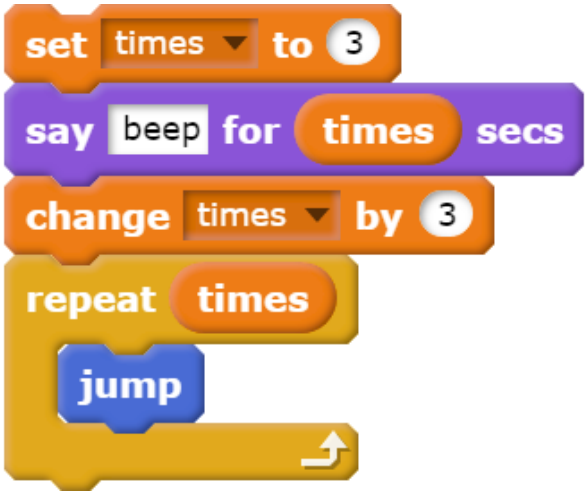
2, Explain what happens from top to bottom of the algorithm

3, How many seconds did you beep for? 3

4, What does set times to 3 do?
Clear the variable and put three inside

5, What does change times by 3 do?
Adds three to the variable called times

6, If you wanted to make someone beep for two seconds what would you change? Set times to 2




7, If you wanted to make someone jump five times what would you change? There are lots of ways to do this as long as by the time that the repeat uses the variable times there is only five assigned to it.


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bow?

4, What does set times to 3 do?

5, What are the orange blocks called?

6, If you wanted to make someone wave four time what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you jump?

4, What does set times to 4 do?

5, What are the orange blocks called?

6, If you wanted to make someone smile three time what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you beep?

4, What does set times to 5 do?

5, How long did you have to wait in total?

6, If you wanted to make someone wave three time what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bow?

4, What does set times to 4 do?

5, How long did you have to wait in total?

6, If you wanted to make someone beep twice what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you meow?

4, What does set times to 2 do?

5, What are the orange blocks called?

6, If you wanted to make someone clap four time what would you change?




1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bark?

4, What does set times to 0 do?

5, What are the orange blocks called?

6, If you wanted to make someone clap three time what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you meow?

4, What does set times to 5 do?

5, What are the orange blocks called?

6, If you wanted to make someone meow three times what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you beep?

4, What does set times to 2 do?

5, How long did you have to wait in total?

6, If you wanted to make someone wave four time what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you meow?

4, What does set times to 4 do?

5, What does change times by 1 do?

6, If you wanted to make someone meow twice what would you change?

7, If you wanted to make someone wave six times what would you change?



1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bow?

4, What does set times to 4 do?

5, What does change times by 2 do?

6, If you wanted to make someone bow twice what would you change?

7, If you wanted to make someone beep three times what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you wave?

4, What does set times to 5 do?

5, What does change times by –2 do?

6, If you wanted to make someone wave twice what would you change?

7, If you wanted to make someone bark six times what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you jump?

4, What does set times to 3 do?

5, What does change times by -1 do?

6, If you wanted to make someone meow twice what would you change?

7, If you wanted to make someone wave six times what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bow?

4, What does set times to 4 do?

5, What does change times by 3 do?

6, If you wanted to make someone bow three times what would you change?

7, If you wanted to make someone beep three times what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you nod?

4, What does set times to 2 do?

5, What does change times by –2 do?

6, If you wanted to make someone nod four times what would you change?

7, If you wanted to make someone clap four times what would you change?


1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you clap?

4, What does set times to 6 do?

5, What does change times by –4 do?

6, If you wanted to make someone clap five times what would you change?

7, If you wanted to make someone bow six times what would you change?




1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

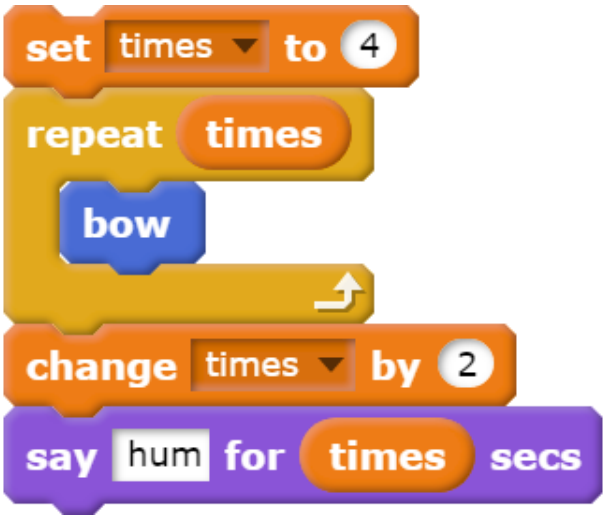
3, How many times did you clap?

4, What does set times to 6 do?

5, What does change times by –4 do?

6, If you wanted to make someone clap five times what would you change?

7, If you wanted to make someone bow six times what would you change?




1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you bow?

4, What does set times to 4 do?

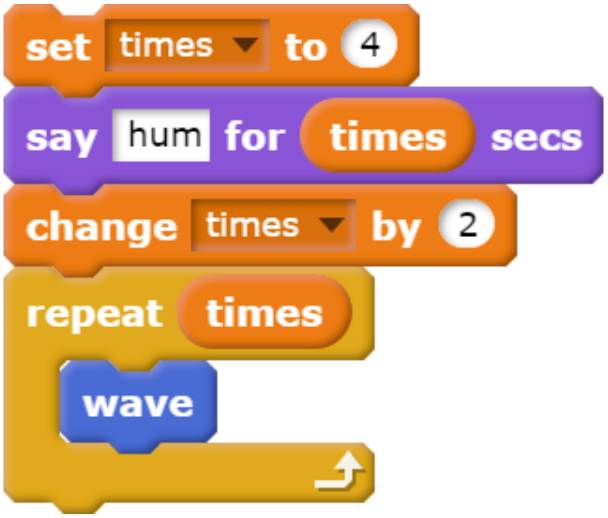
5, What does change times by 2 do?

6, If you wanted to make someone bow three times what would you change?

7, If you wanted to make someone hum for two seconds what would you change?








1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

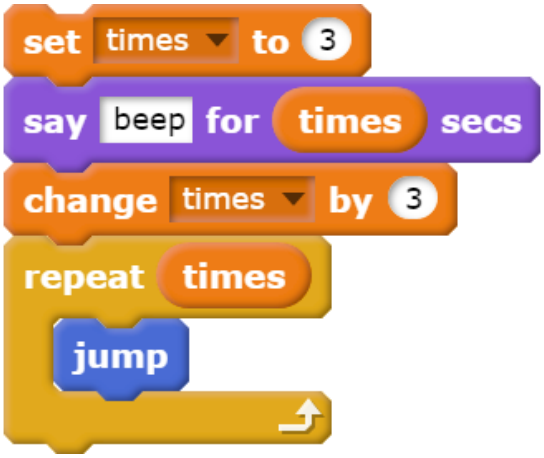
3, How many seconds did you hum for?

4, What does set times to 4 do?

5, What does change times by 2 do?

6, If you wanted to make someone hum for three seconds what would you change?

7, If you wanted to make someone wave four times what would you change?




1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many seconds did you beep for?

4, What does set times to 3 do?

5, What does change times by 3 do?

6, If you wanted to make someone beep for five seconds what would you change?

7, If you wanted to make someone jump nine times what would you change?



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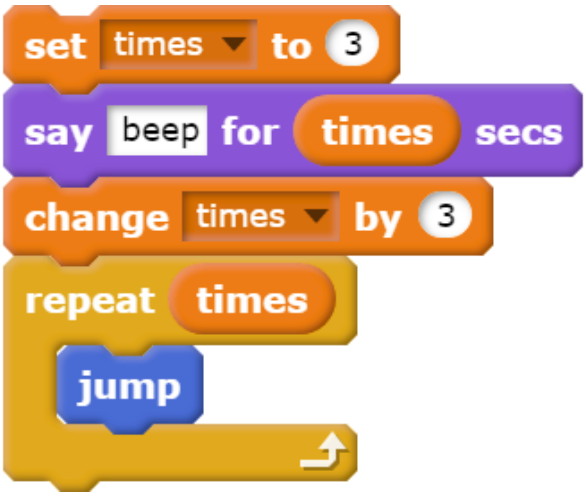



1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

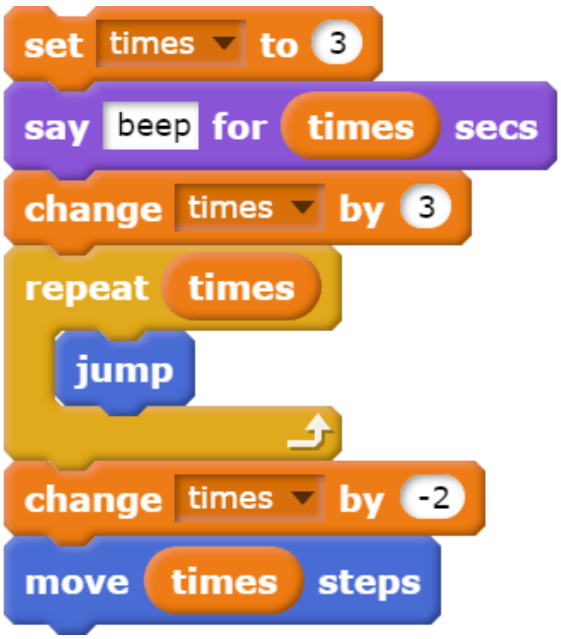
3, How many seconds did you beep for?

4, What does set times to 3 do?

5, What does change times by 3 do?

6, If you wanted to make someone beep for two seconds what would you change?

7, If you wanted to make someone jump five times what would you change?




1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many seconds did you beep for?

4, What does set times to 3 do?

5, What does change times by –2 do?

6, If you wanted to make someone beep for two seconds what would you change?

7, If you wanted to make someone move backwards (–1) one step what would you change?






1, Act out the algorithm

2, Explain what happens from top to bottom of the algorithm

3, How many times did you meow?

4, What does set times to 2 do?

5, What does change times by 3 do?

6, If you wanted to make someone meow three times what would you change?

7, If you wanted to make someone bark four times what would you change?