Task card 1 Interpreting Rate of Change & Init...

The equation L = 34 − 3h gives the length L, in centimeters, of a candle after it burns for h hours. What does the number 34 represent: the rate of change or the initial value?

Task card 2 Interpreting Rate of Change & Init...

The equation P = 9g + 15 gives the monthly phone bill P, in dollars, when g gigabytes of data are used. What does the number 15 represent: the rate of change or the initial value?

Task card 3 Interpreting Rate of Change & Init...

The equation V = −21t + 864 gives the water V, in liters, left in a tank t minutes after it starts to drain. What does the number 864 represent: the rate of change or the initial value?

Task card 4 Interpreting Rate of Change & Init...

The equation W = 344 + 20t gives the water W, in liters, in a pool t minutes after a hose is turned on. What does the number 20 represent: the rate of change or the initial value?

Task card 5 Interpreting Rate of Change & Init...

The equation V = −21t + 731 gives the water V, in liters, left in a tank t minutes after it starts to drain. What does the number 21 represent: the rate of change or the initial value?

Task card 6 Interpreting Rate of Change & Init...

The equation P = 40 + 5g gives the monthly phone bill P, in dollars, when g gigabytes of data are used. What does the number 40 represent: the rate of change or the initial value?

Task card 7 Interpreting Rate of Change & Init...

The equation $E = 96 - 14h$ gives the battery level E, in percent, of a laptop h hours after it is unplugged. What does the number 96 represent: the rate of change or the initial value?

Task card 8 Interpreting Rate of Change & Init...

The equation $P = 8g + 39$ gives the monthly phone bill P, in dollars, when g gigabytes of data are used. What does the number 8 represent: the rate of change or the initial value?

Task card 9 Interpreting Rate of Change & Init...

The equation $A = 887 - 27d$ gives the altitude A, in meters, of a hot-air balloon d minutes after it starts to come down. What does the number -27 represent: the rate of change or the initial value?

Task card 10 Interpreting Rate of Change & Init...

The equation $E = 82 - 14h$ gives the battery level E, in percent, of a laptop h hours after it is unplugged. What does the number 14 represent: the rate of change or the initial value?

Task card 11 Interpreting Rate of Change & Init...

The equation $E = -12h + 83$ gives the battery level E, in percent, of a laptop h hours after it is unplugged. What does the number 83 represent: the rate of change or the initial value?

Task card 12 Interpreting Rate of Change & Init...

The equation $E = 90 - 9h$ gives the battery level E, in percent, of a laptop h hours after it is unplugged. What does the number 90 represent: the rate of change or the initial value?

Task card 13 Interpreting Rate of Change & Init...

The equation L = 38 − 3h gives the length L, in centimeters, of a candle after it burns for h hours. What does the number 3 represent: the rate of change or the initial value?

Task card 14 Interpreting Rate of Change & Init...

The equation B = 49 − 5c gives the balance B, in dollars, left on a gift card after c coffees are bought. What does the number 49 represent: the rate of change or the initial value?

Task card 15 Interpreting Rate of Change & Init...

The equation L = −4h + 36 gives the length L, in centimeters, of a candle after it burns for h hours. What does the number 4 represent: the rate of change or the initial value?

Task card 16 Interpreting Rate of Change & Init...

The equation E = −13h + 94 gives the battery level E, in percent, of a laptop h hours after it is unplugged. What does the number 13 represent: the rate of change or the initial value?

Task card 17 Interpreting Rate of Change & Init...

The equation V = −21t + 886 gives the water V, in liters, left in a tank t minutes after it starts to drain. What does the number 21 represent: the rate of change or the initial value?

Task card 18 Interpreting Rate of Change & Init...

The equation C = 23h + 26 gives the cost C, in dollars, of renting a boat for h hours. What does the number 26 represent: the rate of change or the initial value?

Task card 19 Interpreting Rate of Change & Init...

The equation L = 37 − 2h gives the length L, in centimeters, of a candle after it burns for h hours. What does the number −2 represent: the rate of change or the initial value?

Task card 20 Interpreting Rate of Change & Init...

The equation S = 26n + 135 gives the money S, in dollars, in Lena's savings account after n weeks. What does the number 26 represent: the rate of change or the initial value?

Task card 21 Interpreting Rate of Change & Init...

The equation A = 1389 − 29d gives the altitude A, in meters, of a hot-air balloon d minutes after it starts to come down. What does the number −29 represent: the rate of change or the initial value?

Task card 22 Interpreting Rate of Change & Init...

The equation H = 13 + 4w gives the height H, in centimeters, of a plant w weeks after it was planted. What does the number 4 represent: the rate of change or the initial value?

Task card 23 Interpreting Rate of Change & Init...

The equation L = −2h + 39 gives the length L, in centimeters, of a candle after it burns for h hours. What does the number 39 represent: the rate of change or the initial value?

Task card 24 Interpreting Rate of Change & Init...

The equation W = 301 + 22t gives the water W, in liters, in a pool t minutes after a hose is turned on. What does the number 301 represent: the rate of change or the initial value?

Interpreting Rate of Change & Initial Value Task Cards

Recording sheet · Grade 8 · Answer each question with "rate of change" or "initial value".

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Interpreting Rate of Change & Initial Value Task Cards: Answer Key

Grade 8 · Hard

The answers online

1. initial value	**2.** initial value	**3.** initial value
4. rate of change	**5.** rate of change	**6.** initial value
7. initial value	**8.** rate of change	**9.** rate of change
10. rate of change	**11.** initial value	**12.** initial value
13. rate of change	**14.** initial value	**15.** rate of change
16. rate of change	**17.** rate of change	**18.** initial value
19. rate of change	**20.** rate of change	**21.** rate of change
22. rate of change	**23.** initial value	**24.** initial value