**Task card 1** Dependent & Independent Variables

A pool fills with water over time. Let t be the minutes and v be the gallons in the pool. Which variable is the independent variable? Write t or v.

**Task card 2** Dependent & Independent Variables

A baker puts 9 muffins in each box. Write an equation for the number of muffins m in b boxes.

**Task card 3** Dependent & Independent Variables

Tom earns money for each hour he works. Let h be the hours worked and m be the money earned. Which variable is the independent variable? Write h or m.

**Task card 4** Dependent & Independent Variables

Use the equation $y = 9x + 13$ to find y when $x = 4$.

**Task card 5** Dependent & Independent Variables

Tickets cost 4 dollars each. Write an equation for the total cost c of n tickets.

**Task card 6** Dependent & Independent Variables

The number of pages Ava reads depends on the minutes she reads. Let r be the minutes and n be the pages. Which variable is the independent variable? Write r or n.

**Task card 7** Dependent & Independent Variables

Kim is 16 years older than her brother. Write an equation for Kim's age k when her brother is a years old.

**Task card 8** Dependent & Independent Variables

A plant grows taller each week. Let w be the number of weeks and t be the plant's height. Which variable is the independent variable? Write w or t.

**Task card 9** Dependent & Independent Variables

Use the equation y = 5x + 5 to find y when x = 10.

**Task card 10** Dependent & Independent Variables

Kim is 8 years older than her brother. Write an equation for Kim's age k when her brother is a years old.

**Task card 11** Dependent & Independent Variables

A pool fills with water over time. Let t be the minutes and v be the gallons in the pool. Which variable is the dependent variable? Write t or v.

**Task card 12** Dependent & Independent Variables

Kim is 13 years older than her brother. Write an equation for Kim's age k when her brother is a years old.

**Task card 13** Dependent & Independent Variables

A car uses gas as it drives. Let d be the distance driven and g be the gallons of gas used. Which variable is the dependent variable? Write d or g.

**Task card 14** Dependent & Independent Variables

Use the equation y = 7x + 4 to find y when x = 12.

**Task card 15** Dependent & Independent Variables

A tank already has 5 gallons of water, and g more gallons are added. Write an equation for the total gallons t.

**Task card 16** Dependent & Independent Variables

A baker puts 3 muffins in each box. Write an equation for the number of muffins m in b boxes.

**Task card 17** Dependent & Independent Variables

Tom earns money for each hour he works. Let h be the hours worked and m be the money earned. Which variable is the dependent variable? Write h or m.

**Task card 18** Dependent & Independent Variables

Use the equation y = 4x + 7 to find y when x = 9.

**Task card 19** Dependent & Independent Variables

Ava reads 13 pages each day. Write an equation for the pages p she reads in d days.

**Task card 20** Dependent & Independent Variables

A tank already has 15 gallons of water, and g more gallons are added. Write an equation for the total gallons t.

**Task card 21** Dependent & Independent Variables

The cost of apples depends on how many pounds you buy. Let p be the pounds and c be the cost. Which variable is the dependent variable? Write p or c.

**Task card 22** Dependent & Independent Variables

Use the equation $y = 2x + 14$ to find y when $x = 8$.

**Task card 23** Dependent & Independent Variables

Ava reads 15 pages each day. Write an equation for the pages p she reads in d days.

**Task card 24** Dependent & Independent Variables

The total price of pizzas depends on how many are ordered. Let z be the number of pizzas and y be the total price. Which variable is the independent variable? Write z or y.

# Dependent & Independent Variables Task Cards

Recording sheet · Grade 6 · Answer each question.

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 |

# Dependent & Independent Variables Task Cards: Answer Key

Grade 6 · Hard

The answers online

| | | |
|---|---|---|
| **1.** t | **2.** m = 9b | **3.** h |
| **4.** 49 | **5.** c = 4n | **6.** r |
| **7.** k = a + 16 | **8.** w | **9.** 55 |
| **10.** k = a + 8 | **11.** v | **12.** k = a + 13 |
| **13.** g | **14.** 88 | **15.** t = g + 5 |
| **16.** m = 3b | **17.** m | **18.** 43 |
| **19.** p = 13d | **20.** t = g + 15 | **21.** c |
| **22.** 30 | **23.** p = 15d | **24.** z |