Task card 1 Piecewise Functions: Choosing the...

Find f(1).

$$f(x) = \begin{cases} 4x + 3 & \text{if } x < 0 \\ 4x + 6 & \text{if } x \geq 0 \end{cases}$$

Task card 2 Piecewise Functions: Choosing the...

Which piece of f do you use to find f(-3)?

$$f(x) = \begin{cases} 3x + 6 & \text{if } x < 2 \\ 2x - 7 & \text{if } x \geq 2 \end{cases}$$

Task card 3 Piecewise Functions: Choosing the...

Find f(7).

$$f(x) = \begin{cases} 3x + 5 & \text{if } x < 3 \\ 3x + 4 & \text{if } x \geq 3 \end{cases}$$

Task card 4 Piecewise Functions: Choosing the...

Find f(-9).

$$f(x) = \begin{cases} -1 & \text{if } x < -4 \\ 2x + 8 & \text{if } x \geq -4 \end{cases}$$

Task card 5 Piecewise Functions: Choosing the...

Find f(-5).

$$f(x) = \begin{cases} x + 5 & \text{if } x < -3 \\ 4x - 2 & \text{if } x \geq -3 \end{cases}$$

Task card 6 Piecewise Functions: Choosing the...

Which piece of f do you use to find f(4)?

$$f(x) = \begin{cases} 4x - 4 & \text{if } x < 3 \\ 4x & \text{if } x \geq 3 \end{cases}$$

Task card 7 Piecewise Functions: Choosing the...

Find f(-7).

$$f(x) = \begin{cases} 2x + 8 & \text{if } x < -4 \\ x + 6 & \text{if } x \geq -4 \end{cases}$$

Task card 8 Piecewise Functions: Choosing the...

Find f(-3).

$$f(x) = \begin{cases} 2x - 2 & \text{if } x < -3 \\ x - 3 & \text{if } x \geq -3 \end{cases}$$

Task card 9 Piecewise Functions: Choosing the...

Find f(1).

$$f(x) = \begin{cases} 4x - 4 & \text{if } x < 2 \\ x + 5 & \text{if } x \geq 2 \end{cases}$$

Task card 10 Piecewise Functions: Choosing the...

Which piece of f do you use to find f(6)?

$$f(x) = \begin{cases} 2x + 4 & \text{if } x < 1 \\ 3x + 3 & \text{if } x \geq 1 \end{cases}$$

Task card 11 Piecewise Functions: Choosing the...

Find f(2).

$$f(x) = \begin{cases} x - 5 & \text{if } x < 0 \\ 3x + 5 & \text{if } x \geq 0 \end{cases}$$

Task card 12 Piecewise Functions: Choosing the...

Find f(5).

$$f(x) = \begin{cases} 4x + 1 & \text{if } x < 3 \\ -1 & \text{if } x \geq 3 \end{cases}$$

Task card 13 Piecewise Functions: Choosing the...

Find f(-5).

$$f(x) = \begin{cases} 4x + 3 & \text{if } x < -2 \\ 4x - 4 & \text{if } x \geq -2 \end{cases}$$

Task card 14 Piecewise Functions: Choosing the...

Which piece of f do you use to find f(-1)?

$$f(x) = \begin{cases} 3x + 2 & \text{if } x < -4 \\ 4x - 7 & \text{if } x \geq -4 \end{cases}$$

Task card 15 Piecewise Functions: Choosing the...

Find f(-9).

$$f(x) = \begin{cases} 3x + 3 & \text{if } x < -4 \\ 4x - 4 & \text{if } x \geq -4 \end{cases}$$

Task card 16 Piecewise Functions: Choosing the...

Find f(-4).

$$f(x) = \begin{cases} 4x + 2 & \text{if } x < -4 \\ 2x - 3 & \text{if } x \geq -4 \end{cases}$$

Task card 17 Piecewise Functions: Choosing the...

Find f(-2).

$$f(x) = \begin{cases} -4x + 7 & \text{if } x \leq -4 \\ -2x - 8 & \text{if } x > -4 \end{cases}$$

Task card 18 Piecewise Functions: Choosing the...

Find f(3).

$$f(x) = \begin{cases} -5x + 4 & \text{if } x \leq 3 \\ -4x - 7 & \text{if } x > 3 \end{cases}$$

Task card 19 Piecewise Functions: Choosing the...

Find f(5).

$$f(x) = \begin{cases} -x - 7 & \text{if } x < -2 \\ 4x + 7 & \text{if } -2 \le x \le 3 \\ -x + 7 & \text{if } x > 3 \end{cases}$$

Task card 20 Piecewise Functions: Choosing the...

Which piece of f do you use to find f(-9)?

$$f(x) = \begin{cases} 2x + 2 & \text{if } x < -4 \\ -x + 7 & \text{if } -4 \le x \le -1 \\ -x + 7 & \text{if } x > -1 \end{cases}$$

Task card 21 Piecewise Functions: Choosing the...

Find f(-7).

$$f(x) = \begin{cases} -2 & \text{if } x \le -2 \\ 4x + 7 & \text{if } x > -2 \end{cases}$$

Task card 22 Piecewise Functions: Choosing the...

Find f(2).

$$f(x) = \begin{cases} x + 1 & \text{if } x < 1 \\ 4x - 8 & \text{if } x \ge 1 \end{cases}$$

Task card 23 Piecewise Functions: Choosing the...

Find f(-5).

$$f(x) = \begin{cases} 5x + 8 & \text{if } x < -4 \\ -3 & \text{if } -4 \le x \le -1 \\ 2x - 6 & \text{if } x > -1 \end{cases}$$

Task card 24 Piecewise Functions: Choosing the...

A babysitter earns $16 per hour for up to 7 hours, and $19 for each hour over 7. Her pay is P(h) for h hours. How many dollars does she earn for 12 hours?

$$P(h) = \begin{cases} 16h & \text{if } 0 \le h \le 7 \\ 112 + 19(h - 7) & \text{if } h > 7 \end{cases}$$

Piecewise Functions: Choosing the Right Piece Task Cards

Recording sheet · Grade 9 · Each function is shown with a brace; its pieces are numbered from the top, 1, 2, 3. When a question asks which piece to use, answer with that number. Otherwise write the value as a number.

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

Piecewise Functions: Choosing the Right Piece Task Cards: Answer Key

Grade 9 · Easy

The answers online

1. 10	**2.** 1	**3.** 25
4. -1	**5.** 0	**6.** 2
7. -6	**8.** -6	**9.** 0
10. 2	**11.** 11	**12.** -1
13. -17	**14.** 2	**15.** -24
16. -11	**17.** -4	**18.** -11
19. 2	**20.** 1	**21.** -2
22. 0	**23.** -17	**24.** 207