**Task card 1** Dividing Complex Numbers

$$(2 - 8i)(2 + 8i) = ___$$

**Task card 2** Dividing Complex Numbers

$$(6 + 5i)(6 - 5i) = ___$$

**Task card 3** Dividing Complex Numbers

$$\frac{-23 + 2i}{-2 + 3i} = ___$$

**Task card 4** Dividing Complex Numbers

$$\frac{-10 - 26i}{2 - 2i} = ___$$

**Task card 5** Dividing Complex Numbers

$$\frac{35 - 5i}{-4 - 3i} = ___$$

**Task card 6** Dividing Complex Numbers

$$\frac{38 + 44i}{-1 + 5i} = ___$$

**Task card 7** Dividing Complex Numbers

$$\frac{-32 + 7i}{5 - 2i} = ___$$

**Task card 8** Dividing Complex Numbers

$$\frac{34}{1 - 4i} = ___$$

**Task card 9** Dividing Complex Numbers

$$(9 - 2i)(9 + 2i) = ___$$

**Task card 10** Dividing Complex Numbers

$$(8 + 7i)(8 - 7i) = ___$$

**Task card 11** Dividing Complex Numbers

$$\frac{23 + 24i}{3 + 2i} = ___$$

**Task card 12** Dividing Complex Numbers

$$\frac{75 + 5i}{5 + 5i} = ___$$

**Task card 13** Dividing Complex Numbers

$$\frac{36 + 2i}{-2 - 3i} = ___$$

**Task card 14** Dividing Complex Numbers

$$\frac{-22 + 4i}{4 - 3i} = ___$$

**Task card 15** Dividing Complex Numbers

$$\frac{-35 - 30i}{-4 + 3i} = ___$$

**Task card 16** Dividing Complex Numbers

$$\frac{15}{-1 - 2i} = ___$$

**Task card 17** Dividing Complex Numbers

$$(1 + 3i)(1 - 3i) = ___$$

**Task card 18** Dividing Complex Numbers

$$(3 - 9i)(3 + 9i) = ___$$

**Task card 19** Dividing Complex Numbers

$$\frac{-39 + 13i}{1 + 5i} = ___$$

**Task card 20** Dividing Complex Numbers

$$\frac{40 - 7i}{4 + i} = ___$$

**Task card 21** Dividing Complex Numbers

$$\frac{9 - 33i}{-3 - 2i} = ___$$

**Task card 22** Dividing Complex Numbers

$$\frac{-16 + 8i}{-2 + 2i} = ___$$

**Task card 23** Dividing Complex Numbers

$$\frac{-15 + 15i}{3 + 3i} = ___$$

**Task card 24** Dividing Complex Numbers

$$\frac{26}{-3 + 2i} = ___$$

# Dividing Complex Numbers Task Cards

Recording sheet · Grade 11 · Simplify. Write each answer in the form a + bi.

Name: _____ Date: _____

Scan to check your answers

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

# Dividing Complex Numbers Task Cards: Answer Key

Grade 11 · Hard

The answers online

| | | |
|---|---|---|
| **1.** 68 | **2.** 61 | **3.** 4 + 5i |
| **4.** 4 - 9i | **5.** -5 + 5i | **6.** 7 - 9i |
| **7.** -6 - i | **8.** 2 + 8i | **9.** 85 |
| **10.** 113 | **11.** 9 + 2i | **12.** 8 - 7i |
| **13.** -6 + 8i | **14.** -4 - 2i | **15.** 2 + 9i |
| **16.** -3 + 6i | **17.** 10 | **18.** 90 |
| **19.** 1 + 8i | **20.** 9 - 4i | **21.** 3 + 9i |
| **22.** 6 + 2i | **23.** 5i | **24.** -6 - 4i |