



Math worksheet on 'Complex Numbers - Division (Level 1)'. Part of a broader unit on 'Complex Numbers'

Learn online: app.mobius.academy/math/units/complex_numbers/

1 Divide these complex numbers and simplify

$$\frac{-3 - 5i}{2 - 4i}$$

a	b	c
$\frac{7 - 11i}{10 - 2i}$	$\frac{-7 - 11i}{10}$	$\frac{7 - 11i}{10}$
d	e	f
$\frac{8 - 11i}{10}$	$\frac{7 - 10i}{10}$	$\frac{7 - 13i}{10}$

2 Divide these complex numbers and simplify

$$\frac{-3 - 4i}{5 - 5i}$$

a	b	c
$\frac{1 - 5i}{10}$	$\frac{1 - 6i}{10}$	$\frac{1 - 7i}{10}$
d	e	f
$\frac{-7i}{10}$	$\frac{1 - 7i}{10 + 1i}$	$\frac{1 - 7i}{-10}$

3 Divide these complex numbers and simplify

$$\frac{-6 + 3i}{3 + 2i}$$

a	b	c
$\frac{-12 + 21i}{13}$	$\frac{-14 + 21i}{13}$	$\frac{-12 + 19i}{13}$
d	e	f
$\frac{-12 + 21i}{-13}$	$\frac{-10 + 21i}{13}$	$\frac{12 + 21i}{13}$

4 Divide these complex numbers and simplify

$$\frac{-5 - 5i}{-5 + 5i}$$

a	b	c
$\frac{1i}{1 - 1i}$	$\frac{1i}{1 + 2i}$	$\frac{1i}{2}$
d	e	f
$1i$	$-1i$	$2 + 1i$

5 Divide these complex numbers and simplify

$$\frac{5 - 6i}{5 - 4i}$$

a	b	c
$\frac{49 - 12i}{41}$	$\frac{47 - 10i}{41}$	$\frac{49 - 10i}{41}$
d	e	f
$\frac{49 + 10i}{41}$	$\frac{51 - 10i}{41}$	$\frac{50 - 10i}{41}$

6 Divide these complex numbers and simplify

$$\frac{-4 - 5i}{3 + 4i}$$

a	b	c
$\frac{-32 - 1i}{25}$	$\frac{-32}{25}$	$\frac{-32 + 1i}{27}$
d	e	f
$\frac{-32 + 1i}{25}$	$\frac{-32 + 1i}{-25}$	$\frac{32 + 1i}{25}$

7 Divide these complex numbers and simplify

$$\frac{2 - 6i}{4 + 3i}$$

a	b	c
$\frac{-2 - 6i}{5}$	$\frac{-4 - 6i}{5}$	$\frac{-2 - 8i}{5}$
d	e	f
$\frac{-2 - 7i}{5}$	$\frac{-3 - 6i}{5}$	$\frac{-2 - 6i}{-5}$