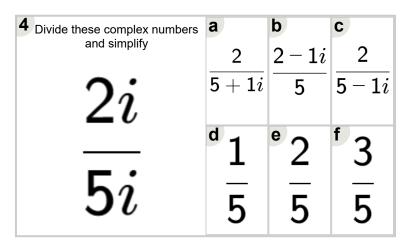# mobius

Math worksheet on *'Complex Numbers - Division Imaginary Part Only (Level 1)'*. Part of a broader unit on *'Complex Numbers'*
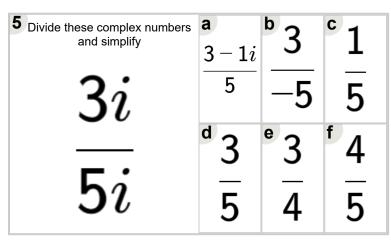
Learn online: app.mobius.academy/math/units/complex_numbers/

1 Divide these complex numbers and simplify

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

a	b	c
3	2	1
d	**e**	**f**
-1	$1-2i$	$1+1i$

2 Divide these complex numbers and simplify

$$\frac{2i}{3i}$$

a	b	c
$\dfrac{2}{3}$	$\dfrac{0}{3}$	$\dfrac{2}{-3}$
d	**e**	**f**
$\dfrac{2}{2}$	$\dfrac{2-1i}{3}$	$\dfrac{2}{3-1i}$

3 Divide these complex numbers and simplify

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

a	b	c
$-1-2i$	$\dfrac{-1}{3}$	-1
d	**e**	**f**
$-1+2i$	-3	1

4 Divide these complex numbers and simplify

$$\frac{2i}{5i}$$

a	b	c
$\dfrac{2}{5+1i}$	$\dfrac{2-1i}{5}$	$\dfrac{2}{5-1i}$
d	**e**	**f**
$\dfrac{1}{5}$	$\dfrac{2}{5}$	$\dfrac{3}{5}$

5 Divide these complex numbers and simplify

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

a	b	c
$\dfrac{3-1i}{5}$	$\dfrac{3}{-5}$	$\dfrac{1}{5}$
d	**e**	**f**
$\dfrac{3}{5}$	$\dfrac{3}{4}$	$\dfrac{4}{5}$

6 Divide these complex numbers and simplify

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

a	b	c
$\dfrac{-5}{2-2i}$	$\dfrac{-5+1i}{2}$	$\dfrac{-5}{4}$
d	**e**	**f**
$\dfrac{-5}{2}$	$\dfrac{-4}{2}$	$\dfrac{-3}{2}$

7 Divide these complex numbers and simplify

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

a	b	c
$\dfrac{-5}{5}$	$\dfrac{-4+2i}{5}$	$\dfrac{-4}{5}$
d	**e**	**f**
$\dfrac{-3}{5}$	$\dfrac{4}{5}$	$\dfrac{-4}{3}$