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

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1 Divide these complex numbers and simplify

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

a $\frac{-5}{4}$ **b** $\frac{-3}{4}$ **c** $\frac{-5+2i}{4}$

d $\frac{-5}{-4}$ **e** $\frac{-5-2i}{4}$ **f** $\frac{-6}{4}$

2 Divide these complex numbers and simplify

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

a $\frac{3}{5}$ **b** $\frac{1}{5}$ **c** $\frac{2}{5+1i}$

d $\frac{2-1i}{5}$ **e** $\frac{2}{5-1i}$ **f** $\frac{2}{5}$

3 Divide these complex numbers and simplify

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

a $\frac{-5}{5}$ **b** $\frac{-4-1i}{5}$ **c** $\frac{-4}{5}$

d $\frac{-4}{5-2i}$ **e** $\frac{-2}{5}$ **f** $\frac{-4-2i}{5}$

4 Divide these complex numbers and simplify

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

a $\frac{-5}{5}$ **b** $\frac{3}{5}$ **c** $\frac{-3}{7}$

d $\frac{-3}{5-1i}$ **e** $\frac{-3+2i}{5}$ **f** $\frac{-3}{5}$

5 Divide these complex numbers and simplify

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

a $\frac{-3+1i}{4}$ **b** $\frac{-3}{6}$ **c** $\frac{-3}{4}$

d $\frac{-3}{4-2i}$ **e** $\frac{-3+2i}{4}$ **f** $\frac{-3-1i}{4}$

6 Divide these complex numbers and simplify

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

a $\frac{5-1i}{6}$ **b** $\frac{5}{4}$ **c** $\frac{6}{6}$

d $\frac{5}{7}$ **e** $\frac{7}{6}$ **f** $\frac{5}{6}$

7 Divide these complex numbers and simplify

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

a 3 **b** $1-2i$ **c** -1

d 2 **e** $1+1i$ **f** 1