Topic: Reciprocals

Question: Find the reciprocal.

$$\frac{1}{3}$$

Answer choices:

A $-\frac{1}{3}$

B -3

C $\frac{2}{3}$

D 3

Solution: D

The reciprocal of a fraction is what we get when we switch the fraction's numerator with its denominator. In the given fraction,

$$\frac{1}{3}$$

the numerator is 1 and the denominator is 3. When we switch them, we get

$$\frac{3}{1}$$

$$3$$

Topic: Reciprocals

Question: Find the reciprocal.

$$\frac{16}{21}$$

Answer choices:

A $-\frac{16}{21}$

B $\frac{1}{16}$

C $\frac{21}{16}$

D $-\frac{21}{16}$

Solution: C

The reciprocal of a fraction is what we get when we switch the fraction's numerator with its denominator. In the given fraction,

$$\frac{16}{21}$$

the numerator is 16 and the denominator is 21. When we switch them, we get

$$\frac{21}{16}$$

Topic: Reciprocals

Question: Find the negative reciprocal.

$$-\frac{1}{7}$$

Answer choices:

A -7

B 7

C $\frac{7}{1}$

D -1

Solution: B

The reciprocal of a fraction is whatever we get when we replace the numerator with the denominator and the denominator with the numerator. In the given fraction,

$$-\frac{1}{7}$$

the numerator is 1 and the denominator is 7. When we switch them, we get

$$-\frac{7}{1}$$

$$-7$$

Since we're looking for the negative reciprocal, we have to take the reciprocal we just found and multiply it by -1.

$$-7(-1)$$

$$7$$