

Name: Class:

Ratio tables

Complete the ratio tables below.

1.

Numerator	Denominator
10	2
30	a
b	8
20	c

2.

Numerator	Denominator
27	a
9	11
18	22
b	33

3.

Numerator	Denominator
10	2
20	c
30	8
b	a

4.

Numerator	Denominator
100	a
27	22
81	44
b	66

5.

Numerator	Denominator
30	8
50	a
b	16
40	c

6.

Numerator	Denominator
57	a
27	17
31	33
b	50

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Ratio tables

Complete the ratio tables below.

1.

Numerator	Denominator
10	2
30	a
b	8
20	c

Since we know that the values are equivalent, we can find the missing values. Use the complete ratio to find the other values.

$$10 : 2 = \frac{10}{2}$$

Set $\frac{10}{2}$ equal to any uncomplete ratio.

$$\frac{10}{2} = \frac{30}{a}$$

To get a we'll multiply 2 by 30 and divide by 10.

$$\frac{10}{2} = \frac{30}{a} \quad a = \frac{2 \times 30}{10} = 6$$

$$a = 6$$

Follow same steps to solve b and c.

$$\text{For } b, \frac{10}{2} = \frac{b}{8} \quad b = \frac{10 \times 8}{2} = 40$$

$$b = 40$$

$$\text{For } c, \frac{10}{2} = \frac{20}{c} \quad c = \frac{20 \times 2}{10} = 4$$

$$c = 4$$

So, the complete table is

Numerator	Denominator
10	2
30	6
40	8
20	4

2.

Numerator	Denominator
27	a
9	11
18	22
27	33

Since we know that the values are equivalent, we can find the missing values. Use the ratio that's complete to find the other values

$$9 : 11 = \frac{9}{11}$$

Set $\frac{9}{11}$ equal to any uncomplete to find ratio.

$$\frac{9}{11} = \frac{27}{a}$$

To get a we'll multiply 11 by 27 and divided by 9

$$\frac{9}{11} = \frac{27}{a} \quad a = \frac{11 \times 27}{9} = \frac{297}{9}$$

$$a = 33$$

Solve the other expression.

$$\text{For } b, \frac{9}{11} = \frac{b}{33} \quad b = \frac{9 \times 33}{11}$$

$$= \frac{297}{11}$$

$$b = 27$$