

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

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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

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

$$b = 40$$

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	33 a
9	11
18	22
27 b	33

Since we know that the values are equivalent, we can find the missing values
Use the ratio thats 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 dived by 9

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

$$a = 33$$

solve the other expression

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

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

$$b = 27$$