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

Solution

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Name: ..... Class: .....

Ratio tables

Complete the ratio tables below.

a.

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

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

$a = 6$

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

b.

Numerator	Denominator
27	33
9	11
18	22
27	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

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

$a = 33$

Let's solve the other expression;

for b,

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

$= \frac{297}{11}$

$b = 27$