

Name: Class:

Equivalent rates

Fill the blank spaces with the missing number to complete the proportions.

- 25 chairs per row = _____ chairs in 25 rows
- 123 dollars for 41 TV channels = _____ dollars per channel.
- 900 books in _____ boxes = 90 books per box.
- 100 apples per bag = 500 apples in _____ bags.
- 50 chairs per row = _____ chairs in 5 rows.
- 3,000 dollars for 92 TV channels = _____ dollars per channel.
- 300 books in _____ boxes = 30 books per box.
- 60 apples per bag = 30 apples in _____ bags.

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Equivalent rates

Fill the blank spaces with the missing number to complete the proportions.

1. 25 chairs per row = _____ chairs in 25 rows.

We get the ratios below from the given information.

25 : 1 and _____ : 25

Write the ratios as fractions.

$$\frac{25}{1} \text{ and } \frac{?}{25} \quad \text{To find the missing digit (?), multiply 25 by 25 and divide by 1.}$$

$$? = \frac{25 \times 25}{1} = 625$$

Therefore, 625 chairs in 25 rows.

2. 123 dollars for 41 TV channels = _____ dollars per channel.

We get the ratios below from the given information.

123 : 41 and _____ : 1

Write the ratios as fractions.

$$\frac{123}{41} \text{ and } \frac{?}{1} \quad \text{To find the missing digit (?), multiply 123 by 1 and divide by 41.}$$

$$? = \frac{123 \times 1}{41} = 3$$

Therefore, 3 dollars per channel.

3. 900 books in _____ boxes = 90 books per box.

We get the ratios below from the given information.

900 : _____ and 90 : 1

Write the ratios as fractions.

$$\frac{900}{?} \text{ and } \frac{90}{1} \quad \text{To find the missing digit (?), multiply 1 by 900 and divide by 90.}$$

$$? = \frac{1 \times 900}{90} = 10$$

Therefore, 900 books in 10 boxes.

4. 100 apples per bag = 500 apples in _____ bags.

We get the ratios below from the given information.

100 : 1 and 500 : _____

$$\frac{100}{1} \text{ and } \frac{500}{?} \quad \text{To find the missing digit (?), multiply 500 by 1 and divide by 100.}$$

$$? = \frac{500 \times 1}{100} = 5$$

Therefore, 500 apples in 5 bags.