

Name: Class:

Write Equivalent ratios

A. Solve the unknown values using equivalent ratios.

$90 : \boxed{x} = 10 : 7$

$40 : \boxed{y} = 10 : 4$

$60 : \boxed{r} = 10 : 3$

$80 : \boxed{x} = 10 : 5$

B. Solve the unknown values below by using equivalent ratios. (Tick the most correct answer).

a. $20 : 100 = \underline{\hspace{2cm}} : 5$

- 1 4 : 5 $\frac{100}{25}$

e. $6 : 1 = 12 : \underline{\hspace{2cm}}$

- $\frac{12}{1}$ $\frac{12}{6}$ 2

b. $9 : 24 = 3 : \underline{\hspace{2cm}}$

- $\frac{9}{24}$ 8 $\frac{3}{8}$

f. $10 : 5 = \underline{\hspace{2cm}} : 5$

- $\frac{10}{5}$ 10 50

c. $\underline{\hspace{2cm}} : 55 = 11 : 5$

- 605 $\frac{605}{5}$ 121

h. $6 : 9 = \underline{\hspace{2cm}} : 3$

- 2 $\frac{6}{3}$ $\frac{6}{9}$

d. $4 : \underline{\hspace{2cm}} = 8 : 20$

- 80 $\frac{80}{8}$ 10

g. $\underline{\hspace{2cm}} : 1 = 20 : 2$

- $\frac{20}{2}$ 10 10

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Write Equivalent ratios

A. Solve the unknown values using equivalent ratios.

90 : = 10 : 7

Write each ratio in its fractional form.

90 : = $\frac{90}{x}$ 10 : 7 = $\frac{10}{7}$

Equate the ratios to each other.

$\frac{90}{x} = \frac{10}{7}$ Cross multiply to solve for x.
 $= (90) \times (7) = (10) \times (x)$

630 = 10x Solve by dividing both figures by 10.

630 = 10x = $\frac{630}{10} = \frac{10x}{10}$

x = 63

Solution 90 : 63 = 10 : 7

B. Solve the unknown values below by using equivalent ratios. (Tick the most correct answer).

a. 20 : 100 = 1 : 5

- 1 4 : 5 $\frac{100}{25}$

e. 6 : 1 = 12 : 2

- $\frac{12}{1}$ $\frac{12}{6}$ 2

b. 9 : 24 = 3 : 8

- $\frac{9}{24}$ 8 $\frac{3}{8}$

f. 10 : 5 = 10 : 5

- $\frac{10}{5}$ 10 50

c. 121 : 55 = 11 : 5

- 605 $\frac{605}{5}$ 121

h. 6 : 9 = 2 : 3

- 2 $\frac{6}{3}$ $\frac{6}{9}$

d. 4 : 10 = 8 : 20

- 80 $\frac{80}{8}$ 10

g. 10 : 1 = 20 : 2

- $\frac{20}{2}$ 10 20