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

Write Equivalent ratios

A. Solve the unknown values using equivalent ratios.

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

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

a. 20 : 100 = _____ : 5

☐ 1   ☐ 4 ; 5   ☐ $\frac{100}{25}$

b. 9 : 24 = 3 : _____

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

c. _____ : 55 = 11 : 5

☐ 605   ☐ $\frac{605}{5}$ ☐ 121

d. 4 : _____ = 8 : 20

☐ 80   ☐ $\frac{80}{8}$ ☐ 10

e. 6 : 1 = 12 : _____

☐ $\frac{12}{1}$ ☐ $\frac{12}{6}$ ☐ 2

f. 10 : 5 = _____ : 5

☐ $\frac{10}{5}$ ☐ 10   ☐ 50

h. 6 : 9 = _____ : 3

☐ 2   ☐ $\frac{6}{3}$ ☐ $\frac{6}{9}$

g. _____ : 1 = 20 : 2

☐ $\frac{20}{2}$ ☐ 10   ☐ 10

mathskills4kids

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

Write Equivalent ratios

A. Solve the unknown values using equivalent ratios.

90 : [**x**] = 10 : 7

Write each ratio in its fractional form.

90 : [**x**] = $\dfrac{90}{x}$ 10 : 7 = $\dfrac{10}{7}$

Equate the ratios to each other.

$\dfrac{90}{x} \times \dfrac{10}{7}$ Cross multiply to solve for x.

= (90) x (7) = (10) x (**x**)

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

630 = 10**x** = $\dfrac{630}{10}$ = $\dfrac{10x}{10}$

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   ☐ $\dfrac{100}{25}$

e. 6 : 1 = 12 : _____**2**_____

☐ $\dfrac{12}{1}$ ☐ $\dfrac{12}{6}$ ☑ 2

b. 9 : 24 = 3 : _____**8**_____

☐ $\dfrac{9}{24}$ ☑ 8   ☐ $\dfrac{3}{8}$

f. 10 : 5 = _____**10**_____ : 5

☐ $\dfrac{10}{5}$ ☑ 10   ☐ 50

c. _____**121**_____ : 55 = 11 : 5

☐ 605   ☐ $\dfrac{605}{5}$ ☑ 121

h. 6 : 9 = _____**2**_____ : 3

☑ 2   ☐ $\dfrac{6}{3}$ ☐ $\dfrac{6}{9}$

d. 4 : _____**10**_____ = 8 : 20

☐ 80   ☐ $\dfrac{80}{8}$ ☑ 10

g. _____**10**_____ : 1 = 20 : 2

☐ $\dfrac{20}{2}$ ☑ 10   ☐ 20