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

Write Equivalent ratios

1. Solve the unknown values using equivalent ratios.

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

2. Solve the unknown values below by using equivalent ratios. Tick the most correct answer.

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

☐ 1   ☐ 4 ; 5   ☐ $\dfrac{100}{25}$

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

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

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

☐ 605   ☐ $\dfrac{605}{5}$ ☐ 121

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

☐ 80   ☐ $\dfrac{80}{8}$ ☐ 10

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

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

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

☐ $\dfrac{10}{5}$ ☐ 10   ☐ 50

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

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

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

☐ $\dfrac{20}{2}$ ☐ 10   ☐ 10

mathskills4kids

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

Write Equivalent ratios

Solve the unknown values using equivalent ratios.

1. $90 : \boxed{x} = 10 : 7$

Write each ratio in its fractional form.

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

Equate the ratios to each other.

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

$= (90) \times (7) = (10) \times (x)$

$630 = 10x$ $\quad$ Solve by dividing both figures by 10.

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

$x = 63$

Solution $90 : 63 = 10 : 7$

2. Solve the unknown values below by using equivalent ratios. Tick the most correct answer.

a. $20 : 100 = \underline{\qquad} : 5$

☑ 1 $\qquad$ ☐ 4 ; 5 $\qquad$ ☐ $\dfrac{100}{25}$

e. $6 : 1 = 12 : \underline{\qquad}$

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

b. $9 : 24 = 3 : \underline{\qquad}$

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

f. $10 : 5 = \underline{\qquad} : 5$

☐ $\dfrac{10}{5}$ $\qquad$ ☑ 10 $\qquad$ ☐ 50

c. $\underline{\qquad} : 55 = 11 : 5$

☐ 605 $\qquad$ ☐ $\dfrac{605}{5}$ $\qquad$ ☑ 121

h. $6 : 9 = \underline{\qquad} : 3$

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

d. $4 : \underline{\qquad} = 8 : 20$

☐ 80 $\qquad$ ☐ $\dfrac{80}{8}$ $\qquad$ ☑ 10

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

☐ $\dfrac{20}{2}$ $\qquad$ ☑ 10 $\qquad$ ☐ 20