Equivalent Ratios

A) Determine whether the ratios are equivalent.

1) Are 9 : 6 and 18 : 12 equivalent? _____

2) Are 14 : 10 and 2 : 5 equivalent? _____

3) Are 21 : 28 and 3 : 4 equivalent? _____

4) Are 7 : 16 and 24 : 8 equivalent? _____

5) Are 2 : 4 and 10 : 20 equivalent? _____

B) Find the unknown value using equivalent ratios.

1) $3 : 2 = a : 8$

a = _____

2) $c : 7 = 18 : 14$

c = _____

3) $5 : 4 = 20 : d$

d = _____

4) $2 : b = 12 : 24$

b = _____

5) $8 : 3 = n : 9$

n = _____

6) $9 : 27 = u : 3$

u = _____

7) $5 : 6 = 25 : s$

s = _____

8) $20 : 15 = 4 : x$

x = _____

9) $v : 21 = 2 : 7$

v = _____

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Answer key

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2) Are 14 : 10 and 2 : 5 equivalent? **No**

3) Are 21 : 28 and 3 : 4 equivalent? **Yes**

4) Are 7 : 16 and 24 : 8 equivalent? **No**

5) Are 2 : 4 and 10 : 20 equivalent? **Yes**

B) Find the unknown value using equivalent ratios.

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$a =$ **12**

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$c =$ **9**

3) $5 : 4 = 20 : d$

$d =$ **16**

4) $2 : b = 12 : 24$

$b =$ **4**

5) $8 : 3 = n : 9$

$n =$ **24**

6) $9 : 27 = u : 3$

$u =$ **1**

7) $5 : 6 = 25 : s$

$s =$ **30**

8) $20 : 15 = 4 : x$

$x =$ **3**

9) $v : 21 = 2 : 7$

$v =$ **6**