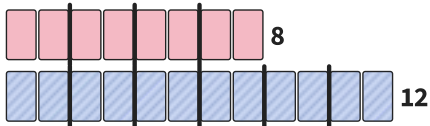


Simplifying Ratios

ANSWERS

1

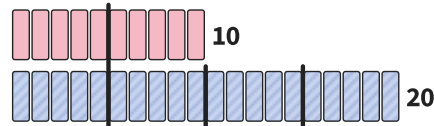
Write 8 : 12 in its simplest form.



$$\begin{array}{ccc}
 8 & : & 12 \\
 \downarrow \div 2 & & \downarrow \\
 4 & : & 6 \\
 \downarrow \div 2 & & \downarrow \\
 2 & : & 3
 \end{array}$$

2

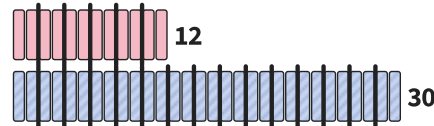
Write 10 : 20 in its simplest form.



$$\begin{array}{ccc}
 10 & : & 20 \\
 \downarrow \div 5 & & \downarrow \\
 2 & : & 4 \\
 \downarrow \div 2 & & \downarrow \\
 1 & : & 2
 \end{array}$$

3

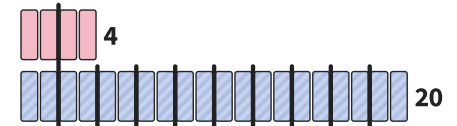
Write 12 : 30 in its simplest form.



$$\begin{array}{ccc}
 12 & : & 30 \\
 \downarrow \div 2 & & \downarrow \\
 6 & : & 15 \\
 \downarrow \div 3 & & \downarrow \\
 2 & : & 5
 \end{array}$$

4

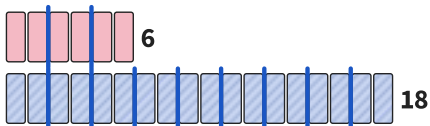
Write 4 : 20 in its simplest form.



$$\begin{array}{ccc}
 4 & : & 20 \\
 \downarrow \div 2 & & \downarrow \\
 2 & : & 10 \\
 \downarrow \div 2 & & \downarrow \\
 1 & : & 5
 \end{array}$$

5

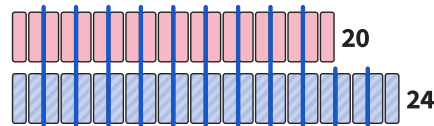
Write 6 : 18 in its simplest form.



$$\begin{array}{ccc}
 6 & : & 18 \\
 \downarrow \div 2 & & \downarrow \\
 3 & : & 9 \\
 \downarrow \div 3 & & \downarrow \\
 1 & : & 3
 \end{array}$$

6

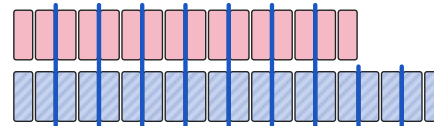
Write 20 : 24 in its simplest form.



$$\begin{array}{ccc}
 20 & : & 24 \\
 \downarrow \div 2 & & \downarrow \\
 10 & : & 12 \\
 \downarrow \div 2 & & \downarrow \\
 5 & : & 6
 \end{array}$$

7

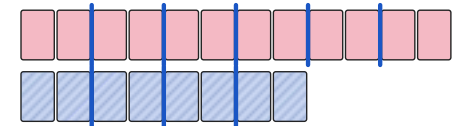
A bag has 16 red and 20 blue beads.
Write red : blue in its simplest form.



$$\begin{array}{ccc}
 16 & : & 20 \\
 \downarrow \div 2 & & \downarrow \\
 8 & : & 10 \\
 \downarrow \div 2 & & \downarrow \\
 4 & : & 5
 \end{array}$$

8

Write top row : bottom row in its simplest form.



$$\begin{array}{ccc}
 12 & : & 8 \\
 \downarrow \div 2 & & \downarrow \\
 6 & : & 4 \\
 \downarrow \div 2 & & \downarrow \\
 3 & : & 2
 \end{array}$$

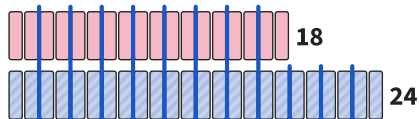
Simplifying Ratios *further practice*

ANSWERS

9



Write 18 : 24 in its simplest form.

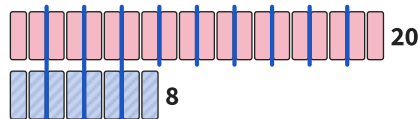


$$\begin{array}{ccc} 18 & : & 24 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 9 & : & 12 \\ \downarrow \div 3 & & \downarrow \div 3 \\ 3 & : & 4 \end{array}$$

10



Write 20 : 8 in its simplest form.



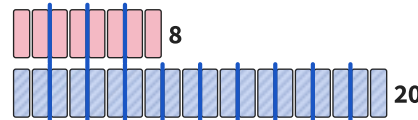
$$\begin{array}{ccc} 20 & : & 8 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 10 & : & 4 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 5 & : & 2 \end{array}$$

11



Find the missing number.

$$8 : 20 = 2 : \square$$

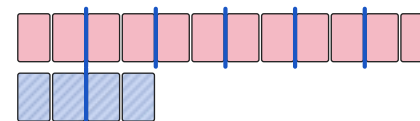


$$\begin{array}{ccc} 8 & : & 20 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 4 & : & 10 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 2 & : & 5 \end{array}$$

12



A team wins 12 games and loses 4.
Write wins : losses in its simplest form.

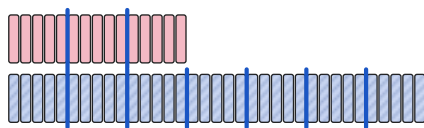


$$\begin{array}{ccc} 12 & : & 4 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 6 & : & 2 \\ \downarrow \div 2 & & \downarrow \div 2 \\ 3 & : & 1 \end{array}$$

13



A farm has 15 sheep and 35 cows.
Write sheep : cows in its simplest form.



$$15 : 35 \rightarrow \div 5 \rightarrow 3 : 7$$

3 and 7: only 1 goes into both

Simplest form 3 : 7

14



Two of these ratios are the same.
Which two?

A 4 : 6



B 6 : 8



C 10 : 15



$$A 2 : 3 \quad B 3 : 4$$

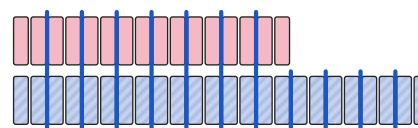
C 2 : 3, the same as A

Answer A and C

15



Write 16 : 24 in its simplest form.
You may need to divide more than twice.



$$16 : 24 \rightarrow 8 : 12 \rightarrow 4 : 6$$

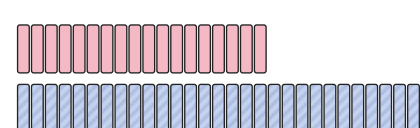
$$4 : 6 \rightarrow 2 : 3 (\div 2 \text{ each time})$$

Simplest form 2 : 3

16



Sam says the simplest form of 18 : 30 is 9 : 15. What has he done wrong?



Sam can still divide by

3. 3 goes into 9 and 15: $9 : 15 = 3 : 5$

Right answer 3 : 5