Name $\qquad$

Equivalent Fractions
Date $\qquad$ Period $\qquad$

True or False - The fractions are equivalent.

1) $\frac{5}{2}$ and $\frac{3}{1}$
2) $\frac{5}{9}$ and $\frac{25}{45}$
3) $\frac{5}{4}$ and $\frac{10}{8}$
4) $\frac{1}{2}$ and $\frac{3}{6}$
5) $\frac{2}{3}$ and $\frac{6}{9}$
6) $\frac{9}{2}$ and $\frac{9}{4}$
7) $\frac{9}{5}$ and $\frac{36}{25}$
8) $\frac{4}{7}$ and $\frac{12}{7}$
9) $\frac{9}{8}$ and $\frac{27}{24}$

MathVine - Pre-Algebra

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1) $\frac{5}{2}$ and $\frac{3}{1}$
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3) $\frac{5}{4}$ and $\frac{10}{8}$
Answer: No
Answer: Yes Answer: Yes

Date $\qquad$
4) $\frac{1}{2}$ and $\frac{3}{6}$
Answer: Yes
5) $\frac{2}{3}$ and $\frac{6}{9}$
Answer: Yes
6) $\frac{9}{2}$ and $\frac{9}{4}$ Answer: No
7) $\frac{9}{5}$ and $\frac{36}{25}$
Answer: No
8) $\frac{4}{7}$ and $\frac{12}{7}$
Answer: No
9) $\frac{9}{8}$ and $\frac{27}{24}$ Answer: Yes
$\qquad$

## Solution Steps

1) $\frac{5}{2}$ and $\frac{3}{1}$
2) $\frac{5}{9}$ and $\frac{25}{45}$
3) $\frac{5}{4}$ and $\frac{10}{8}$

First, write each fraction in lowest terms
The greatest common
First, write each fraction in lowest terms
The greatest common
divisor of 5 and 2 is 1 , so $\overline{2}$ is already in lowest terms The greatest common divisor of 3 and 1 is 1 , so $\frac{3}{1}$ ${ }_{5}^{5}$ already in lowesst terms $\overline{2}$ is not equal to $\overline{1}$
4) $\frac{1}{2}$ and $\frac{3}{6}$

First, write each fraction in lowest terms
The greatest common
divisor of 1 and 2 is 1 , so $\overline{2}$ is already in lowest terms $\overline{6}$ can be reduced, since 3 is a factor of both 3 and 6 : $\overline{6} \div \overline{3}=\overline{2}$
The fraction is now in ${ }_{1}$ lowest terms 3 $\overline{2}$ is equal to $\overline{6}$
divisor of 5 and 9 is 1 , so $\frac{5}{9}$
is already in lowest terms
25 (
$\overline{45}$ can be reduced, since 5 is a factor of both 25 and 45 :
$\frac{25}{45} \div \frac{5}{5}=\frac{5}{9}$
The fraction is now in lowest terms
$\frac{5}{9}$ is equal to $\frac{25}{45}$
5) $\frac{2}{3}$ and $\frac{6}{9}$

First, write each fraction in lowest terms
The greatest common
divisor of 2 and 3 is 1 , so $\overline{3}$ is already in lowest terms $\overline{9}$ can be reduced, since 3 is a factor of both 6 and 9 :
$\overline{9} \div \overline{3}=\overline{3}$
The fraction is now in lowest terms
$\overline{3}$ is equal to $\overline{9}$

First, write each fraction in lowest terms
The greatest common
divisor of 5 and 4 is 1 , so $\overline{4}$
is already in lowest terms
$\frac{10}{8}$ can be reduced, since 2
is a factor of both 10 and 8 :
$\frac{10}{8} \div \frac{2}{2}=\frac{5}{4}$
The fraction is now in
lowest terms
$\overline{4}$ is equal to $\overline{8}$
6) $\frac{9}{2}$ and $\frac{9}{4}$

First, write each fraction in lowest terms
The greatest common
divisor of 9 and 2 is 1 , so $\overline{2}$
is already in lowest terms The greatest common
divisor of 9 and 4 is 1 , so $\overline{4}$
${ }_{9}{ }_{9}$ already in lowest terms $\overline{2}$ is not equal to $\overline{4}$
7) $\frac{9}{5}$ and $\frac{36}{25}$

First, write each fraction in lowest terms
The greatest common
divisor of 9 and 5 is 1 , so $\overline{5}$ is already in lowest terms The greatest common divisor of 36 and 25 is 1 , so 36 $\overline{25}$ is already in lowest ${ }_{9}$ terms $\overline{5}$ is not equal to $\overline{25}$
8) $\frac{4}{7}$ and $\frac{12}{7}$
9) $\frac{9}{8}$ and $\frac{27}{24}$

First, write each fraction in lowest terms
The greatest common
divisor of 4 and 7 is 1 , so $\overline{7}$ is already in lowest terms The greatest common divisor of 12 and 7 is 1 , so 12 $\overline{7}$ is already in lowest terms $\overline{7}$ is not equal to $\overline{7}$

First, write each fraction in lowest terms
The greatest common
divisor of 9 and 8 is 1 , so $\overline{8}$ is already in lowest terms $\frac{27}{24}$ can be reduced, since 3 is a factor of both 27 and 24 :
$\frac{27}{24} \div \frac{3}{3}=\frac{9}{8}$
The fraction is now in lowest terms
97
$\overline{8}$ is equal to $\overline{24}$

