MathVine - Pre-Algebra	Ν	lame	
Equivalent Fractions		Date	Period
True or False - The fraction	s are equivalent.		
1) $\frac{5}{2}$ and $\frac{3}{1}$	2) $\frac{5}{9}$ and $\frac{25}{45}$	3) $\frac{5}{4}$ and $\frac{10}{8}$	<u>)</u>
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 $\frac{27}{24}$	$\frac{7}{1}$

MathVine - Pre-Algebra

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## **Solution Steps**

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

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

divisor of 2 and 3 is 1, so  $\frac{2}{3}$ is already in lowest terms  $\frac{6}{9}$  can be reduced, since 3 is a factor of both 6 and 9:  $\frac{6}{9} \div \frac{3}{3} = \frac{2}{3}$ The fraction is now in lowest terms  $\frac{2}{3}$  is equal to  $\frac{6}{9}$  3)  $\frac{5}{4}$  and  $\frac{10}{8}$ First, write each fraction in lowest terms The greatest common divisor of 5 and 4 is 1, so  $\frac{5}{4}$ 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  $\frac{5}{4}$  $\frac{10}{8} \div \frac{2}{2} = \frac{5}{4}$ 

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  $\frac{9}{2}$ is already in lowest terms The greatest common divisor of 9 and 4 is 1, so  $\frac{9}{4}$ is already in lowest terms  $\frac{9}{2}$  is not equal to  $\frac{9}{4}$ 

Date

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  $\frac{9}{5}$ is already in lowest terms The greatest common divisor of 36 and 25 is 1, so  $\frac{36}{25}$  is already in lowest terms  $\frac{9}{5}$  is not equal to  $\frac{36}{25}$  8)  $\frac{4}{7}$  and  $\frac{12}{7}$ First, write each fraction in lowest terms The greatest common divisor of 4 and 7 is 1, so  $\frac{4}{7}$ is already in lowest terms The greatest common divisor of 12 and 7 is 1, so  $\frac{12}{7}$  is already in lowest terms  $\frac{4}{7}$  is not equal to  $\frac{12}{7}$  9)  $\frac{9}{8}$  and  $\frac{27}{24}$ First, write each fraction in lowest terms The greatest common 9 divisor of 9 and 8 is 1, so  $\overline{8}$ is already in lowest terms  $\overline{24}$  can be reduced, since 3is a factor of both 27 and  $\frac{24}{27}$ 3 9  $\overline{24} \div \overline{3} = \overline{8}$ The fraction is now in lowest terms 27  $\overline{8}$  is equal to  $\overline{24}$