MathVine - Pre-Algebra Name_____

Equivalent Fractions Date_____ Period_____

True or False - The fractions are equivalent.

1) $\frac{1}{6}$ and $\frac{5}{12}$

2) $\frac{7}{5}$ and $\frac{28}{20}$

3) $\frac{4}{3}$ and $\frac{20}{15}$

4) $\frac{1}{4}$ and $\frac{5}{8}$

5) $\frac{7}{5}$ and $\frac{21}{15}$

6) $\frac{2}{7}$ and $\frac{6}{21}$

7) $\frac{4}{9}$ and $\frac{8}{27}$

8) $\frac{1}{7}$ and $\frac{2}{7}$

9) $\frac{7}{2}$ and $\frac{28}{8}$

Equivalent Fractions Date_____ Period_____

True or False - The fractions are equivalent.

1) $\frac{1}{6}$ and $\frac{5}{12}$

Answer: No

2) $\frac{7}{5}$ and $\frac{28}{20}$

Answer: Yes

3) $\frac{4}{3}$ and $\frac{20}{15}$

Answer: Yes

4) $\frac{1}{4}$ and $\frac{5}{8}$

Answer: No

5) $\frac{7}{5}$ and $\frac{21}{15}$

Answer: Yes

6) $\frac{2}{7}$ and $\frac{6}{21}$

Answer: Yes

7) $\frac{4}{9}$ and $\frac{8}{27}$

Answer: No

8) $\frac{1}{7}$ and $\frac{2}{7}$

Answer: No

9) $\frac{7}{2}$ and $\frac{28}{8}$

Answer: Yes

Equivalent Fractions Date_____ Period_____

Solution Steps

1) $\frac{1}{6}$ and $\frac{5}{12}$

First, write each fraction in lowest terms

The greatest common divisor of 1 and 6 is 1, so $\frac{1}{6}$ is already in lowest terms

The greatest common divisor of 5 and 12 is 1, so $\frac{5}{12}$ is already in lowest terms

$\frac{1}{6}$ is not equal to $\frac{5}{12}$

2) $\frac{7}{5}$ and $\frac{28}{20}$

First, write each fraction in lowest terms

The greatest common divisor of 7 and 5 is 1, so $\frac{7}{5}$ is already in lowest terms

$\frac{28}{20}$ can be reduced, since 4 is a factor of both 28 and 20:

$\frac{28}{20} \div \frac{4}{4} = \frac{7}{5}$

The fraction is now in lowest terms

$\frac{7}{5}$ is equal to $\frac{28}{20}$

3) $\frac{4}{3}$ and $\frac{20}{15}$

First, write each fraction in lowest terms

The greatest common divisor of 4 and 3 is 1, so $\frac{4}{3}$ is already in lowest terms

$\frac{20}{15}$ can be reduced, since 5 is a factor of both 20 and 15:

$\frac{20}{15} \div \frac{5}{5} = \frac{4}{3}$

The fraction is now in lowest terms

$\frac{4}{3}$ is equal to $\frac{20}{15}$

4) $\frac{1}{4}$ and $\frac{5}{8}$

First, write each fraction in lowest terms

The greatest common divisor of 1 and 4 is 1, so $\frac{1}{4}$ is already in lowest terms

The greatest common divisor of 5 and 8 is 1, so $\frac{5}{8}$ is already in lowest terms

$\frac{1}{4}$ is not equal to $\frac{5}{8}$

5) $\frac{7}{5}$ and $\frac{21}{15}$

First, write each fraction in lowest terms

The greatest common divisor of 7 and 5 is 1, so $\frac{7}{5}$ is already in lowest terms

$\frac{21}{15}$ can be reduced, since 3 is a factor of both 21 and 15:

$\frac{21}{15} \div \frac{3}{3} = \frac{7}{5}$

The fraction is now in lowest terms

$\frac{7}{5}$ is equal to $\frac{21}{15}$

6) $\frac{2}{7}$ and $\frac{6}{21}$

First, write each fraction in lowest terms

The greatest common divisor of 2 and 7 is 1, so $\frac{2}{7}$ is already in lowest terms

$\frac{6}{21}$ can be reduced, since 3 is a factor of both 6 and 21:

$\frac{6}{21} \div \frac{3}{3} = \frac{2}{7}$

The fraction is now in lowest terms

$\frac{2}{7}$ is equal to $\frac{6}{21}$

7) $\frac{4}{9}$ and $\frac{8}{27}$

First, write each fraction in lowest terms

The greatest common divisor of 4 and 9 is 1, so $\frac{4}{9}$ is already in lowest terms

The greatest common divisor of 8 and 27 is 1, so $\frac{8}{27}$ is already in lowest terms

$\frac{4}{9}$ is not equal to $\frac{8}{27}$

8) $\frac{1}{7}$ and $\frac{2}{7}$

First, write each fraction in lowest terms

The greatest common divisor of 1 and 7 is 1, so $\frac{1}{7}$ is already in lowest terms

The greatest common divisor of 2 and 7 is 1, so $\frac{2}{7}$ is already in lowest terms

$\frac{1}{7}$ is not equal to $\frac{2}{7}$

9) $\frac{7}{2}$ and $\frac{28}{8}$

First, write each fraction in lowest terms

The greatest common divisor of 7 and 2 is 1, so $\frac{7}{2}$ is already in lowest terms

$\frac{28}{8}$ can be reduced, since 4 is a factor of both 28 and 8:

$\frac{28}{8} \div \frac{4}{4} = \frac{7}{2}$

The fraction is now in lowest terms

$\frac{7}{2}$ is equal to $\frac{28}{8}$