

Equivalent Fractions of $\frac{1}{2}$ - Practice Worksheet

Name: _____ Date: _____

Instructions: Find the missing number to make each fraction equivalent to $\frac{1}{2}$. Show your working where possible.

1. $\frac{1}{2} = \frac{?}{4}$

.....

2. $\frac{1}{2} = \frac{?}{6}$

.....

3. $\frac{1}{2} = \frac{?}{10}$

.....

4. $\frac{1}{2} = \frac{?}{16}$

.....

5. $\frac{1}{2} = \frac{6}{?}$

.....

6. $\frac{1}{2} = \frac{9}{?}$

.....

7. Is $\frac{4}{9}$ equivalent to $\frac{1}{2}$? Show why or why not.

.....

8. Simplify $\frac{10}{20}$ to its simplest form. Is it equivalent to $\frac{1}{2}$?

.....

9. $\frac{1}{2} = \frac{?}{100}$

.....

10. A recipe needs $\frac{1}{2}$ cup of sugar. You only have a $\frac{1}{8}$ cup measure. How many $\frac{1}{8}$ cups do you need?

.....

11. Order these from smallest to largest: $\frac{3}{6}$, $\frac{2}{5}$, $\frac{1}{2}$, $\frac{4}{7}$.

.....

12. True or False: Every fraction of the form $\frac{n}{(2n)}$ is equivalent to $\frac{1}{2}$.

.....

Answer Key

1. 2

2. 3

3. 5

4. 8

5. 12

6. 18

7. No. $\frac{4}{9}$ is not equivalent to $\frac{1}{2}$ because $4 \times 2 = 8$, not 9. Cross-multiply: $4 \times 2 = 8$ and $1 \times 9 = 9$; 8 is not equal to 9.

8. Yes. $\frac{10}{20} = \frac{1}{2}$ (divide both by 10).

9. 50

10. 4 (because $4/8 = 1/2$)

11. $2/5$, $3/6 (=1/2)$, $1/2$, $4/7$. Note: $3/6$ and $1/2$ are equal, so the order is: $2/5 < 1/2 = 3/6 < 4/7$.

12. True. Dividing numerator and denominator by n always gives $1/2$.