

Name: \_\_\_\_\_

Date: \_\_\_\_\_



# Fractions Equivalent to One Half

## ANSWERS



Equivalent means similar but not identical. Equivalent fractions represent the same value or size but look different. Their numerators and denominators will be different.

**Section A** Write down what fraction of each shape is shaded. Then check any that are equivalent to  $\frac{1}{2}$ .

<b>Example</b>  $\frac{2}{4}$ <input checked="" type="checkbox"/>	 $\frac{1}{4}$ <input type="checkbox"/>	 $\frac{3}{4}$ <input type="checkbox"/>	 $\frac{2}{4}$ <input checked="" type="checkbox"/>
 $\frac{3}{6}$ <input checked="" type="checkbox"/>	 $\frac{2}{6}$ <input type="checkbox"/>	 $\frac{1}{6}$ <input type="checkbox"/>	 $\frac{3}{6}$ <input checked="" type="checkbox"/>
 $\frac{3}{6}$ <input checked="" type="checkbox"/>	 $\frac{3}{6}$ <input checked="" type="checkbox"/>	 $\frac{2}{6}$ <input type="checkbox"/>	 $\frac{4}{6}$ <input type="checkbox"/>
 $\frac{2}{8}$ <input type="checkbox"/>	 $\frac{2}{8}$ <input type="checkbox"/>	 $\frac{1}{8}$ <input type="checkbox"/>	 $\frac{4}{8}$ <input checked="" type="checkbox"/>
 $\frac{6}{12}$ <input checked="" type="checkbox"/>	 $\frac{2}{12}$ <input type="checkbox"/>	 $\frac{4}{12}$ <input type="checkbox"/>	 $\frac{6}{12}$ <input checked="" type="checkbox"/>
 $\frac{8}{16}$ <input checked="" type="checkbox"/>	 $\frac{8}{16}$ <input type="checkbox"/>	 $\frac{8}{16}$ <input checked="" type="checkbox"/>	 $\frac{8}{16}$ <input checked="" type="checkbox"/>

Write all the fractions from above that are equivalent to  $\frac{1}{2}$ :

$\frac{2}{4}$     $\frac{3}{6}$     $\frac{4}{8}$     $\frac{6}{12}$     $\frac{8}{16}$

What do you notice?

All the numerators are half the size of the denominators.  
 The denominators are twice the size of the numerators.  
 The denominators are all multiples of 2.



# Fractions Equivalent to One Half

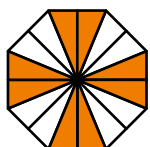
## ANSWERS



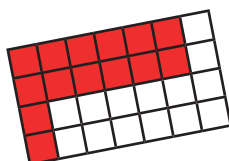
### Section B

Shade a  $\frac{1}{2}$  of each of the following diagrams and state what fraction of the shape you have shaded.

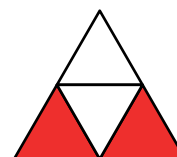
Example



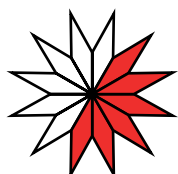
$$\frac{8}{16}$$



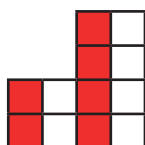
$$\frac{14}{28}$$



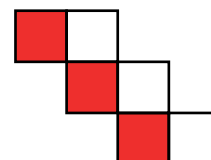
$$\frac{2}{4}$$



$$\frac{6}{12}$$



$$\frac{6}{12}$$



$$\frac{3}{6}$$

### Section C

Using a fraction wall

Use the fraction wall to write down all the fractions that are equivalent to  $\frac{1}{2}$ .

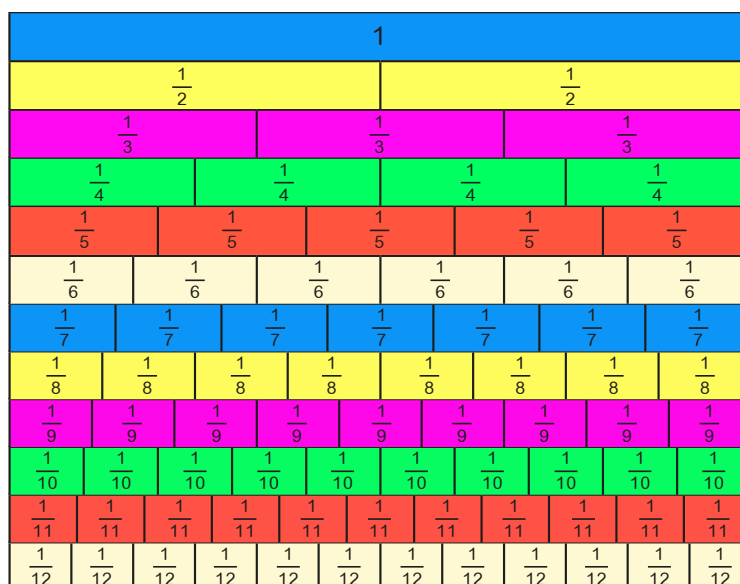
$$\frac{2}{4}$$

$$\frac{3}{6}$$

$$\frac{4}{8}$$

$$\frac{5}{10}$$

$$\frac{6}{12}$$



### Section D

Fill in the blanks to make each pair of fractions equivalent.

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

$$\frac{1}{2} = \frac{3}{6}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{1}{2} = \frac{5}{10}$$

$$\frac{1}{2} = \frac{6}{12}$$

$$\frac{1}{2} = \frac{7}{14}$$

$$\frac{1}{2} = \frac{8}{16}$$

$$\frac{1}{2} = \frac{9}{18}$$

$$\frac{1}{2} = \frac{8}{16}$$

$$\frac{1}{2} = \frac{10}{20}$$

$$\frac{1}{2} = \frac{11}{22}$$

$$\frac{1}{2} = \frac{15}{30}$$

$$\frac{1}{2} = \frac{9}{18}$$

$$\frac{1}{2} = \frac{13}{26}$$

$$\frac{1}{2} = \frac{20}{40}$$

$$\frac{1}{2} = \frac{25}{50}$$

$$\frac{1}{2} = \frac{18}{36}$$

$$\frac{1}{2} = \frac{22}{44}$$

$$\frac{1}{2} = \frac{60}{120}$$

$$\frac{1}{2} = \frac{71}{142}$$