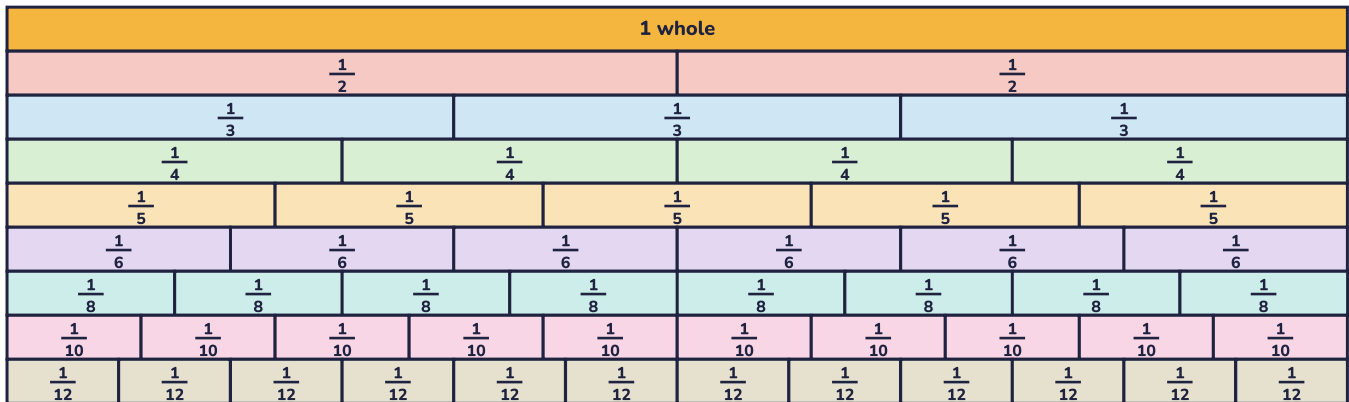


Fractions made easy

Equal parts! In $\frac{3}{5}$ the whole is cut into **5** equal parts (bottom number) and you have **3** (top number).



Of an amount

Divide by the bottom, times by the top.

$$\frac{3}{5} \text{ of } 40: 40 \div 5 = 8, 8 \times 3 = \mathbf{24}$$

Equivalent and simplest form

Do the same to the top and the bottom.

$$\frac{2}{3} = \frac{8}{12} (\times 4) \quad \frac{18}{24} = \frac{3}{4} (\div 6)$$

Comparing

Make the bottom numbers the same.

$$\frac{2}{3} = \frac{10}{15} \text{ is bigger than } \frac{3}{5} = \frac{9}{15}$$

Mixed numbers

$$11 \div 4 = 2 \text{ r } 3, \text{ so } \frac{11}{4} = 2 \frac{3}{4}$$

$$3 \times 5 + 2 = 17, \text{ so } 3 \frac{2}{5} = \frac{17}{5}$$

Add and subtract

Same bottoms first, then the tops.

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

Multiply and divide

$$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8} \text{ (top } \times \text{ top, bottom } \times \text{ bottom)}$$

$$\frac{1}{3} \div 2 = \frac{1}{6} \text{ (times the bottom by 2)}$$

Working backwards

$$\frac{1}{4} \text{ is } 9, \text{ so the whole is } 9 \times 4 = \mathbf{36}$$

$$\frac{2}{5} \text{ is } 14, \text{ so } \frac{1}{5} \text{ is } 7 \text{ and the whole is } \mathbf{35}$$

Watch out

Never add the bottom numbers.

$$\frac{1}{8} \text{ is smaller than } \frac{1}{4} \text{ (more, smaller parts).}$$

Fractions, decimals and percentages

$$\frac{1}{2} = 0.5 = \mathbf{50\%}$$

$$\frac{1}{4} = 0.25 = \mathbf{25\%}$$

$$\frac{3}{4} = 0.75 = \mathbf{75\%}$$

$$\frac{1}{5} = 0.2 = \mathbf{20\%}$$

$$\frac{1}{10} = 0.1 = \mathbf{10\%}$$

$$\frac{1}{8} = 0.125 = \mathbf{12.5\%}$$

$$\frac{3}{8} = 0.375 = \mathbf{37.5\%}$$

$$\frac{1}{100} = 0.01 = \mathbf{1\%}$$

Shade the fraction

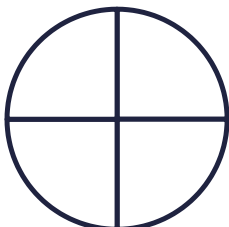
Colour the fraction shown, or write the fraction that is coloured.

Name _____

Date _____

Score _____ / 12

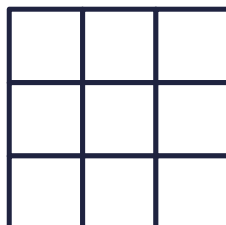
Colour $\frac{1}{4}$



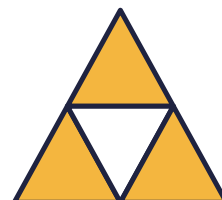
What fraction is coloured?



Colour $\frac{2}{9}$



What fraction is coloured?



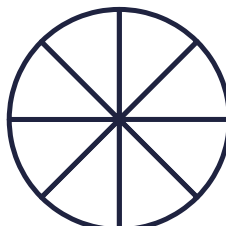
Colour $\frac{5}{6}$



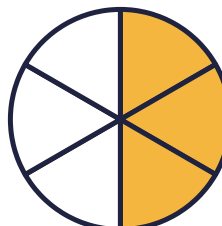
What fraction is coloured?



Colour $\frac{3}{8}$



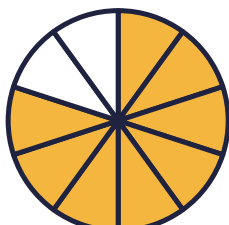
What fraction is coloured?



Colour $\frac{4}{5}$



What fraction is coloured?



Colour $\frac{1}{6}$



What fraction is coloured?

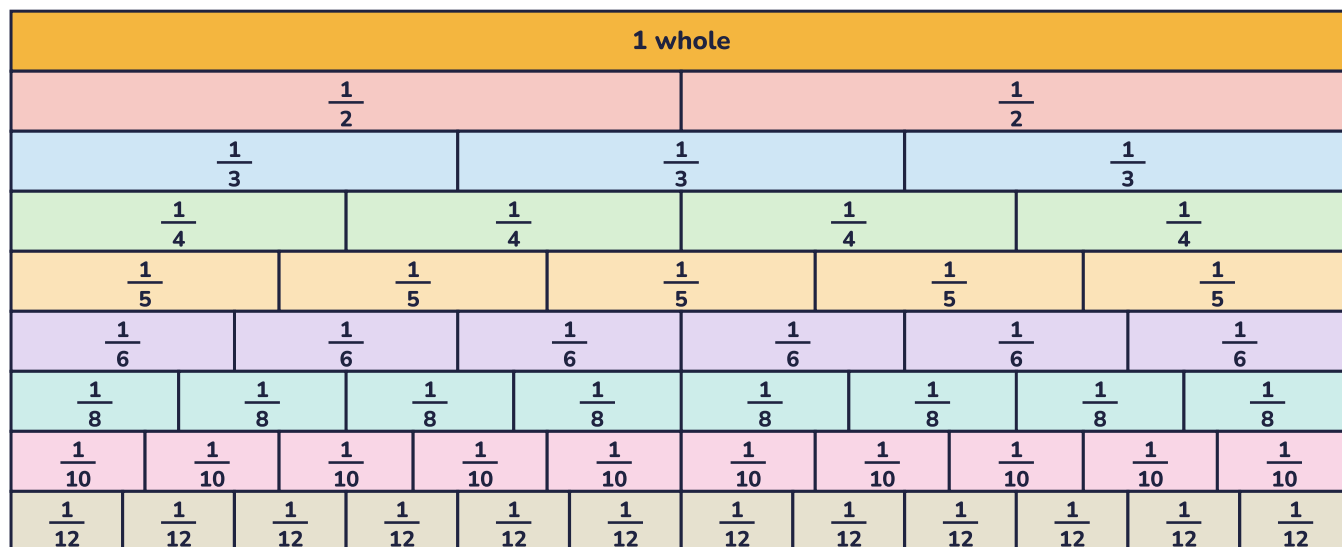


Count all the equal parts for the bottom number. Count the coloured parts for the top number.

Equivalent fractions

Use the fraction wall to find the missing numbers. The fractions on each side cover the same length.

Name _____ Date _____ Score _____ / 12



1. $\frac{4}{6} = \frac{\boxed{}}{3}$

2. $\frac{5}{10} = \frac{\boxed{}}{2}$

3. $\frac{3}{4} = \frac{\boxed{}}{8}$

4. $\frac{4}{8} = \frac{6}{\boxed{}}$

5. $\frac{6}{10} = \frac{\boxed{}}{5}$

6. $\frac{6}{12} = \frac{\boxed{}}{10}$

7. $\frac{2}{4} = \frac{\boxed{}}{8}$

8. $\frac{8}{12} = \frac{4}{\boxed{}}$

9. $\frac{1}{5} = \frac{\boxed{}}{10}$

10. $\frac{1}{2} = \frac{\boxed{}}{4}$

11. $\frac{6}{8} = \frac{\boxed{}}{12}$

12. $\frac{2}{5} = \frac{4}{\boxed{}}$

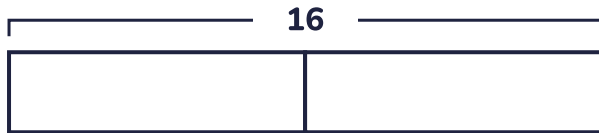
Fractions of amounts

Find each fraction of the amount.

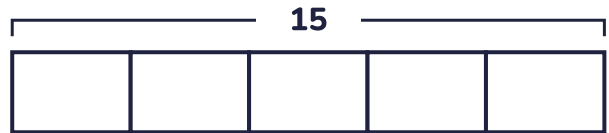
Name _____ Date _____ Score _____ / 16

Use the bar to help Write how much each part is worth.

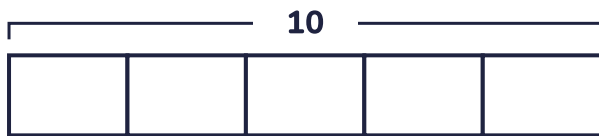
$$\frac{1}{2} \text{ of } 16 = \underline{\hspace{2cm}}$$



$$\frac{2}{5} \text{ of } 15 = \underline{\hspace{2cm}}$$



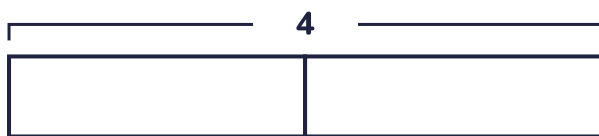
$$\frac{3}{5} \text{ of } 10 = \underline{\hspace{2cm}}$$



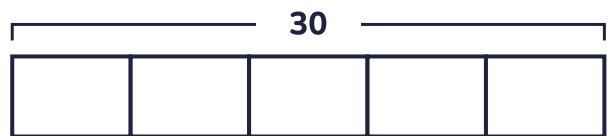
$$\frac{1}{3} \text{ of } 18 = \underline{\hspace{2cm}}$$



$$\frac{1}{2} \text{ of } 4 = \underline{\hspace{2cm}}$$



$$\frac{1}{5} \text{ of } 30 = \underline{\hspace{2cm}}$$



Now try these Divide by the bottom, times by the top.

1. $\frac{1}{2}$ of 12 = _____

2. $\frac{1}{10}$ of 40 = _____

3. $\frac{1}{6}$ of 66 = _____

4. $\frac{1}{2}$ of 10 = _____

5. $\frac{1}{2}$ of 18 = _____

6. $\frac{1}{8}$ of 56 = _____

7. $\frac{1}{4}$ of 44 = _____

8. $\frac{1}{10}$ of 30 = _____

9. $\frac{1}{10}$ of 120 = _____

10. $\frac{1}{3}$ of 33 = _____

Add and subtract fractions

The bottom numbers match, so only the top numbers change.

Name _____

Date _____

Score _____ / 12

1. $\frac{2}{5} - \frac{1}{5} =$

--	--	--	--	--

2. $\frac{2}{5} + \frac{2}{5} =$

--	--	--	--	--

3. $\frac{5}{11} - \frac{3}{11} =$

--	--	--	--	--	--	--	--	--	--

4. $\frac{4}{9} - \frac{2}{9} =$

--	--	--	--	--	--	--	--	--

5. $\frac{1}{6} + \frac{1}{6} =$

--	--	--	--	--	--

6. $\frac{8}{10} - \frac{1}{10} =$

--	--	--	--	--	--	--	--	--	--

7. $\frac{4}{12} + \frac{6}{12} =$

--	--	--	--	--	--	--	--	--	--	--

8. $\frac{3}{9} - \frac{2}{9} =$

--	--	--	--	--	--	--	--	--

9. $\frac{9}{11} - \frac{1}{11} =$

--	--	--	--	--	--	--	--	--	--

10. $\frac{3}{4} - \frac{1}{4} =$

--	--	--	--

11. $\frac{6}{9} - \frac{2}{9} =$

--	--	--	--	--	--	--	--	--

12. $\frac{3}{7} - \frac{2}{7} =$

--	--	--	--	--	--

The bottom number stays the same. Add or take away the top numbers. Colour the bar to check.

Compare and order

Remember: when the top numbers are the same, a bigger bottom number means smaller parts.

Name _____ Date _____ Score _____ / 16

Bigger or smaller? Write <, > or = in each circle.

1. $\frac{1}{10}$ ○ $\frac{1}{11}$

2. $\frac{1}{5}$ ○ $\frac{3}{5}$

3. $\frac{4}{7}$ ○ $\frac{6}{7}$

4. $\frac{3}{12}$ ○ $\frac{6}{12}$

5. $\frac{1}{2}$ ○ $\frac{1}{3}$

6. $\frac{4}{7}$ ○ $\frac{2}{7}$

7. $\frac{8}{11}$ ○ $\frac{5}{11}$

8. $\frac{1}{8}$ ○ $\frac{1}{5}$

9. $\frac{1}{2}$ ○ $\frac{1}{7}$

10. $\frac{6}{9}$ ○ $\frac{4}{9}$

11. $\frac{1}{6}$ ○ $\frac{1}{3}$

12. $\frac{1}{10}$ ○ $\frac{1}{12}$

Put them in order Smallest first.

$\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{12}$ $\frac{1}{2}$

--	--	--	--

$\frac{7}{8}$ $\frac{2}{8}$ $\frac{1}{8}$ $\frac{4}{8}$

--	--	--	--

$\frac{1}{10}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{3}$

--	--	--	--

$\frac{6}{10}$ $\frac{4}{10}$ $\frac{2}{10}$ $\frac{9}{10}$

--	--	--	--

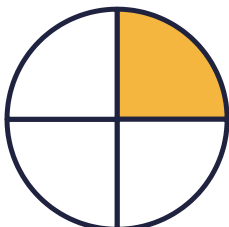
Shade the fraction

Answers are shown in red.

Name _____

Date _____

Colour $\frac{1}{4}$

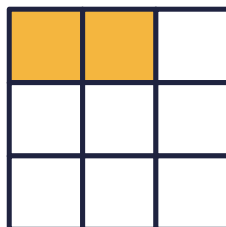


What fraction is coloured?

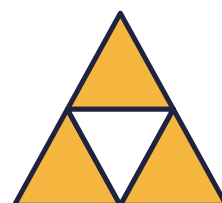


$\frac{2}{4}$

Colour $\frac{2}{9}$



What fraction is coloured?



$\frac{3}{4}$

Colour $\frac{5}{6}$

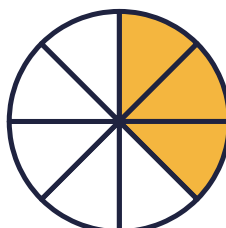


What fraction is coloured?

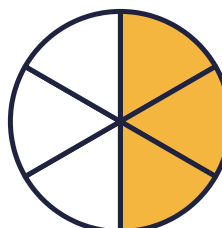


$\frac{2}{3}$

Colour $\frac{3}{8}$



What fraction is coloured?

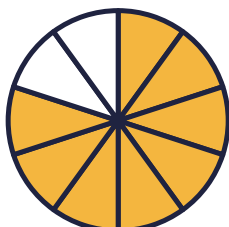


$\frac{3}{6}$

Colour $\frac{4}{5}$



What fraction is coloured?



$\frac{8}{10}$

Colour $\frac{1}{6}$



What fraction is coloured?



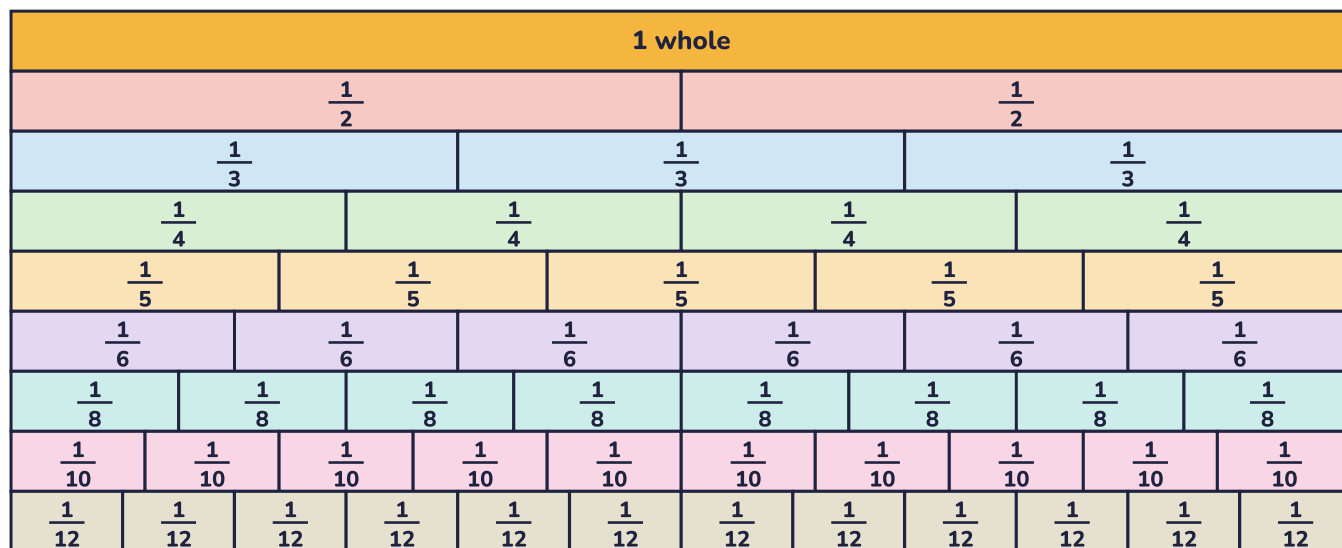
$\frac{4}{8}$

Count all the equal parts for the bottom number. Count the coloured parts for the top number.

Equivalent fractions

Answers are shown in red.

Name _____ Date _____



1. $\frac{4}{6} = \frac{\boxed{2}}{3}$

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

3. $\frac{3}{4} = \frac{\boxed{6}}{8}$

4. $\frac{4}{8} = \frac{\boxed{6}}{\boxed{12}}$

5. $\frac{6}{10} = \frac{\boxed{3}}{5}$

6. $\frac{6}{12} = \frac{\boxed{5}}{10}$

7. $\frac{2}{4} = \frac{\boxed{4}}{8}$

8. $\frac{8}{12} = \frac{\boxed{4}}{\boxed{6}}$

9. $\frac{1}{5} = \frac{\boxed{2}}{10}$

10. $\frac{1}{2} = \frac{\boxed{2}}{4}$

11. $\frac{6}{8} = \frac{\boxed{9}}{12}$

12. $\frac{2}{5} = \frac{\boxed{4}}{\boxed{10}}$

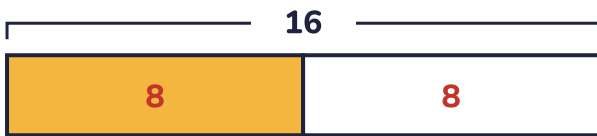
Fractions of amounts

Answers are shown in red.

Name _____ Date _____

Use the bar to help Write how much each part is worth.

$$\frac{1}{2} \text{ of } 16 = \underline{8}$$



$$\frac{2}{5} \text{ of } 15 = \underline{6}$$



$$\frac{3}{5} \text{ of } 10 = \underline{6}$$



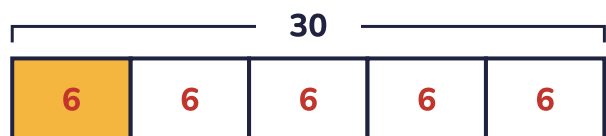
$$\frac{1}{3} \text{ of } 18 = \underline{6}$$



$$\frac{1}{2} \text{ of } 4 = \underline{2}$$



$$\frac{1}{5} \text{ of } 30 = \underline{6}$$



Now try these Divide by the bottom, times by the top.

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

2. $\frac{1}{10}$ of 40 = 4

3. $\frac{1}{6}$ of 66 = 11

4. $\frac{1}{2}$ of 10 = 5

5. $\frac{1}{2}$ of 18 = 9

6. $\frac{1}{8}$ of 56 = 7

7. $\frac{1}{4}$ of 44 = 11

8. $\frac{1}{10}$ of 30 = 3

9. $\frac{1}{10}$ of 120 = 12

10. $\frac{1}{3}$ of 33 = 11

Add and subtract fractions

Answers are shown in red.

Name _____ Date _____

1. $\frac{2}{5} - \frac{1}{5} = \frac{1}{5}$



2. $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$



3. $\frac{5}{11} - \frac{3}{11} = \frac{2}{11}$



4. $\frac{4}{9} - \frac{2}{9} = \frac{2}{9}$



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



6. $\frac{8}{10} - \frac{1}{10} = \frac{7}{10}$



7. $\frac{4}{12} + \frac{6}{12} = \frac{10}{12}$



8. $\frac{3}{9} - \frac{2}{9} = \frac{1}{9}$



9. $\frac{9}{11} - \frac{1}{11} = \frac{8}{11}$



10. $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$



11. $\frac{6}{9} - \frac{2}{9} = \frac{4}{9}$



12. $\frac{3}{7} - \frac{2}{7} = \frac{1}{7}$



The bottom number stays the same. Add or take away the top numbers. Colour the bar to check.

Compare and order

Answers are shown in red.

Name _____ Date _____

Bigger or smaller? Write <, > or = in each circle.

1. $\frac{1}{10}$  $\frac{1}{11}$

2. $\frac{1}{5}$  $\frac{3}{5}$

3. $\frac{4}{7}$  $\frac{6}{7}$

4. $\frac{3}{12}$  $\frac{6}{12}$

5. $\frac{1}{2}$  $\frac{1}{3}$

6. $\frac{4}{7}$  $\frac{2}{7}$

7. $\frac{8}{11}$  $\frac{5}{11}$

8. $\frac{1}{8}$  $\frac{1}{5}$

9. $\frac{1}{2}$  $\frac{1}{7}$

10. $\frac{6}{9}$  $\frac{4}{9}$

11. $\frac{1}{6}$  $\frac{1}{3}$

12. $\frac{1}{10}$  $\frac{1}{12}$

Put them in order Smallest first.

$\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{12}$ $\frac{1}{2}$

$\frac{7}{8}$ $\frac{2}{8}$ $\frac{1}{8}$ $\frac{4}{8}$

$\frac{1}{10}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{3}$

$\frac{6}{10}$ $\frac{4}{10}$ $\frac{2}{10}$ $\frac{9}{10}$