

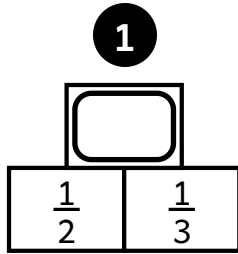


Learn a new puzzle

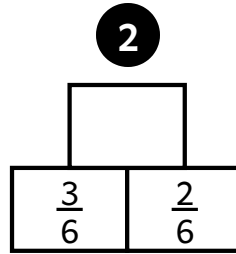
Fraction Puzzles

Each brick is the sum of the two below. Give the fractions one bottom number first.

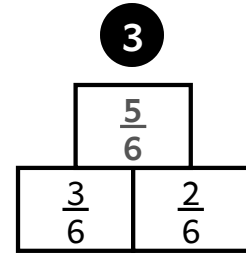
Trick: **Same bottom number**



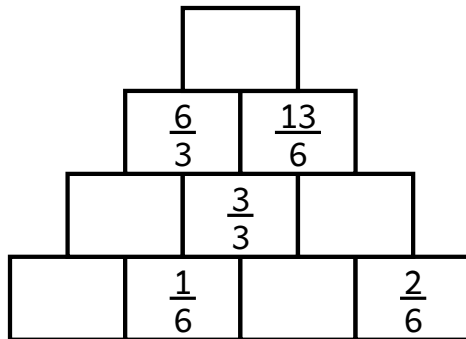
$\frac{1}{2} + \frac{1}{3}$: the bottom numbers differ.



6 works for both: $\frac{1}{2} = \frac{3}{6}$ $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$.
and $\frac{1}{3} = \frac{2}{6}$.



Try it



The answer is with the other answers.

Talk about it: Ask: Which bottom number works for both halves and thirds? Is there more than one?

**1****Fraction Puzzles** Write the fractions in order, from smallest to largest.

a $\frac{3}{4}$ $\frac{1}{2}$ $\frac{7}{12}$ $\frac{2}{5}$

< < <

b $\frac{1}{4}$ $\frac{7}{10}$ $\frac{5}{12}$ $\frac{3}{5}$

< < <

2**Fraction Puzzles** Write the fractions in order, from smallest to largest.

a $\frac{7}{10}$ $\frac{2}{3}$ $\frac{3}{5}$ $\frac{5}{6}$

< < <

b $\frac{3}{10}$ $\frac{11}{12}$ $\frac{1}{6}$ $\frac{1}{5}$

< < <

**3****Fraction Puzzles** Write the fractions in order, from smallest to largest.

a $\frac{7}{10}$ $\frac{1}{8}$ $\frac{3}{4}$ $\frac{1}{5}$

< < <

b $\frac{1}{4}$ $\frac{5}{8}$ $\frac{5}{12}$ $\frac{2}{3}$

< < <

4**Fraction Puzzles** Write the fractions in order, from smallest to largest.

a $\frac{1}{12}$ $\frac{1}{4}$ $\frac{2}{5}$ $\frac{3}{10}$

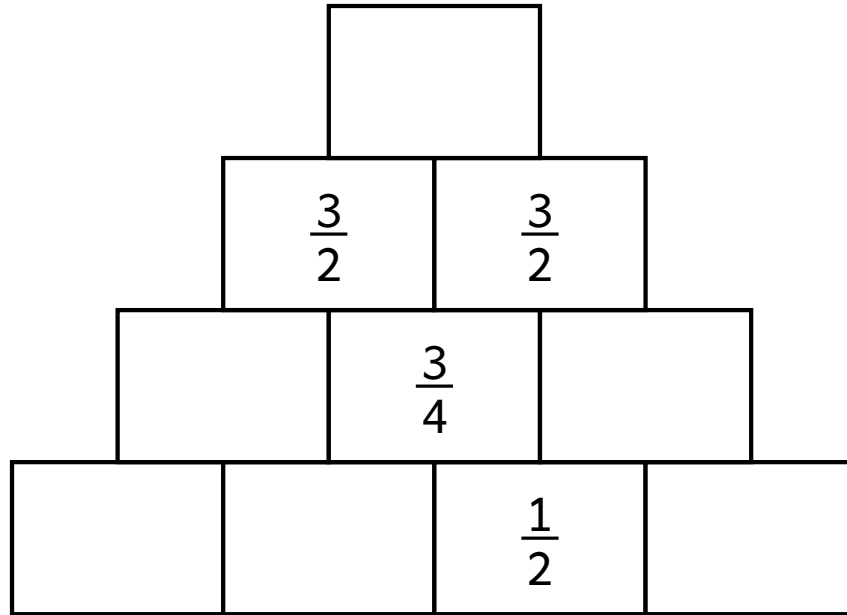
< < <

b $\frac{9}{10}$ $\frac{1}{3}$ $\frac{1}{5}$ $\frac{1}{12}$

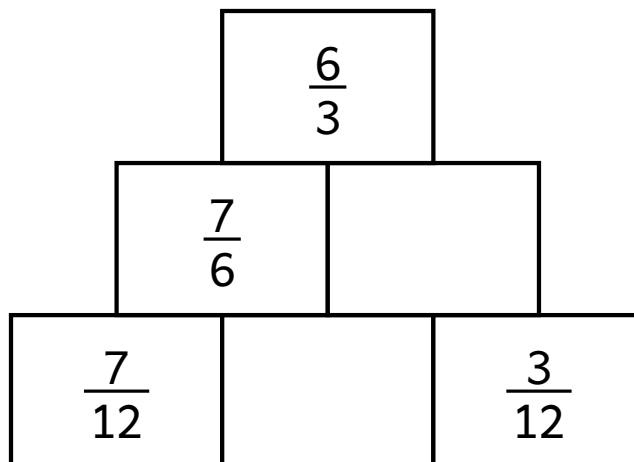
< < <

**5****Fraction Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves and fourths.

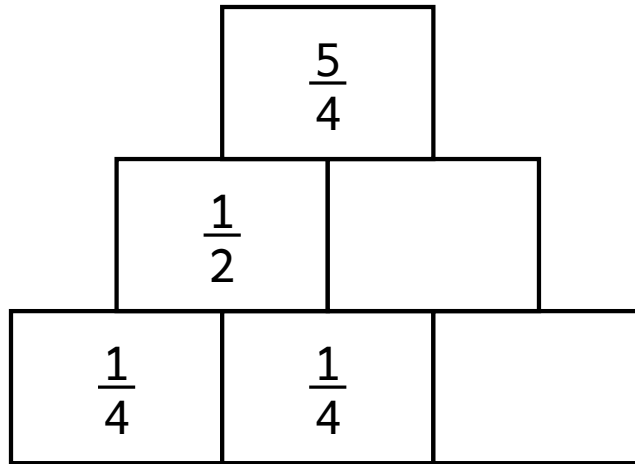
**6****Fraction Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix thirds, sixths and twelfths.

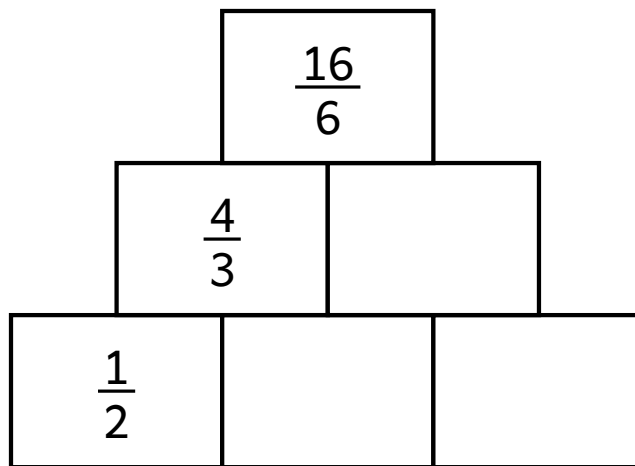


**7****Fraction Puzzles**

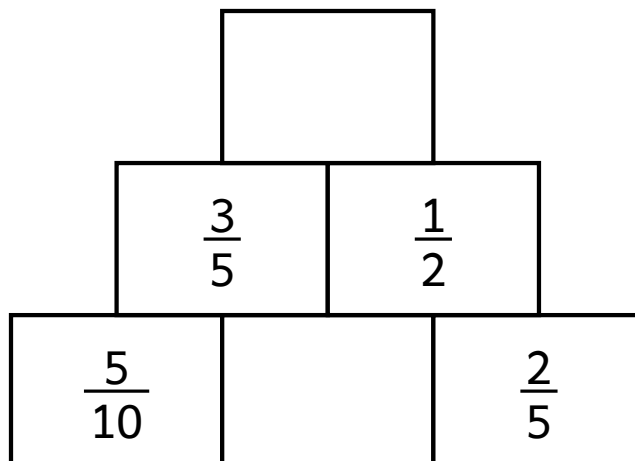
Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves and fourths.

**8****Fraction Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves, thirds and sixths.

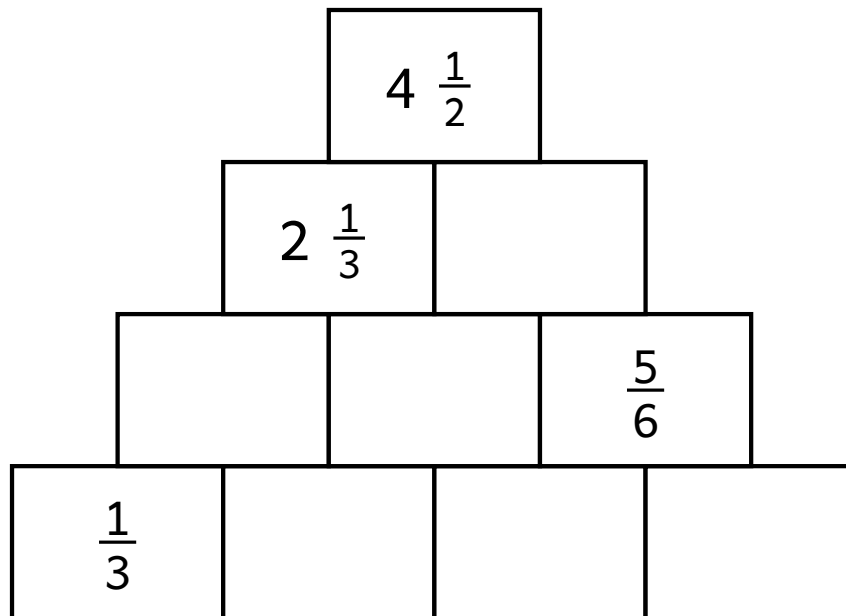
**9****Fraction Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves, fifths and tenths.



**10****Fraction Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves, thirds and sixths. Some bricks hold mixed numbers.

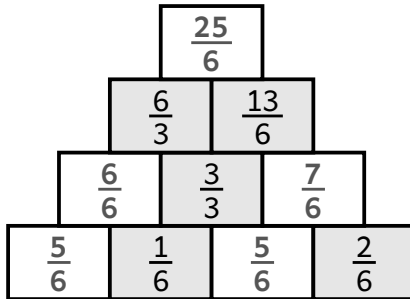




Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Fraction Puzzles



#1

a $\frac{3}{4}$ $\frac{1}{2}$ $\frac{7}{12}$ $\frac{2}{5}$

$\left[\frac{2}{5}\right] < \left[\frac{1}{2}\right] < \left[\frac{7}{12}\right] < \left[\frac{3}{4}\right]$

b $\frac{1}{4}$ $\frac{7}{10}$ $\frac{5}{12}$ $\frac{3}{5}$

$\left[\frac{1}{4}\right] < \left[\frac{5}{12}\right] < \left[\frac{3}{5}\right] < \left[\frac{7}{10}\right]$

a: 2/5, 1/2, 7/12, 3/4. Give them all the bottom number 60: 24/60, 30/60, 35/60, 45/60. Then compare the tops.
b: 1/4, 5/12, 3/5, 7/10. Give them all the bottom number 60: 15/60, 25/60, 36/60, 42/60. Then compare the tops.

#2

a $\frac{7}{10}$ $\frac{2}{3}$ $\frac{3}{5}$ $\frac{5}{6}$

$\left[\frac{3}{5}\right] < \left[\frac{2}{3}\right] < \left[\frac{7}{10}\right] < \left[\frac{5}{6}\right]$

b $\frac{3}{10}$ $\frac{11}{12}$ $\frac{1}{6}$ $\frac{1}{5}$

$\left[\frac{1}{6}\right] < \left[\frac{1}{5}\right] < \left[\frac{3}{10}\right] < \left[\frac{11}{12}\right]$

a: 3/5, 2/3, 7/10, 5/6. Give them all the bottom number 30: 18/30, 20/30, 21/30, 25/30. Then compare the tops.
b: 1/6, 1/5, 3/10, 11/12. Give them all the bottom number 60: 10/60, 12/60, 18/60, 55/60. Then compare the tops.

#3

a $\frac{7}{10}$ $\frac{1}{8}$ $\frac{3}{4}$ $\frac{1}{5}$

$\left[\frac{1}{8}\right] < \left[\frac{1}{5}\right] < \left[\frac{7}{10}\right] < \left[\frac{3}{4}\right]$

b $\frac{1}{4}$ $\frac{5}{8}$ $\frac{5}{12}$ $\frac{2}{3}$

$\left[\frac{1}{4}\right] < \left[\frac{5}{12}\right] < \left[\frac{5}{8}\right] < \left[\frac{2}{3}\right]$

a: 1/8, 1/5, 7/10, 3/4. Give them all the bottom number 40: 5/40, 8/40, 28/40, 30/40. Then compare the tops.
b: 1/4, 5/12, 5/8, 2/3. Give them all the bottom number 24: 6/24, 10/24, 15/24, 16/24. Then compare the tops.

#4

a $\frac{1}{12}$ $\frac{1}{4}$ $\frac{2}{5}$ $\frac{3}{10}$

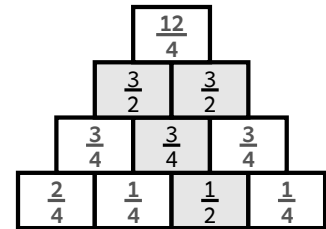
$\left[\frac{1}{12}\right] < \left[\frac{1}{4}\right] < \left[\frac{3}{10}\right] < \left[\frac{2}{5}\right]$

b $\frac{9}{10}$ $\frac{1}{3}$ $\frac{1}{5}$ $\frac{1}{12}$

$\left[\frac{1}{12}\right] < \left[\frac{1}{5}\right] < \left[\frac{1}{3}\right] < \left[\frac{9}{10}\right]$

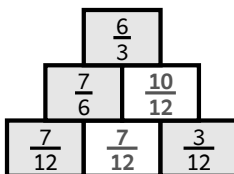
a: 1/12, 1/4, 3/10, 2/5. Give them all the bottom number 60: 5/60, 15/60, 18/60, 24/60. Then compare the tops.
b: 1/12, 1/5, 1/3, 9/10. Give them all the bottom number 60: 5/60, 12/60, 20/60, 54/60. Then compare the tops.

#5



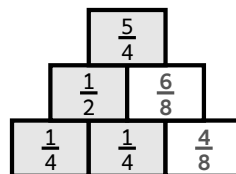
Write every brick with bottom number 4 first. Then 3/4 sits on 2/4 and ?, so ? = 3/4 - 2/4 = 1/4.

#6



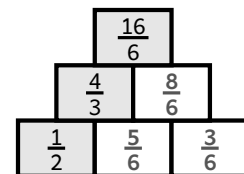
Write every brick with bottom number 12 first. Then 14/12 sits on 7/12 and ?, so ? = 14/12 - 7/12 = 7/12.

#7



Write every brick with bottom number 8 first. Then 10/8 sits on 4/8 and ?, so ? = 10/8 - 4/8 = 6/8.

#8



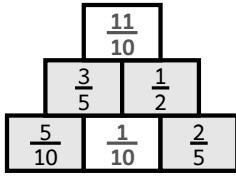
Write every brick with bottom number 6 first. Then 8/6 sits on 3/6 and ?, so ? = 8/6 - 3/6 = 5/6.



Answers

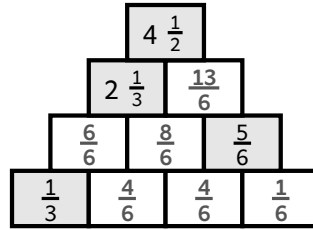
For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9



Write every brick with bottom number 10 first. Then $\frac{6}{10}$ sits on $\frac{5}{10}$ and $\frac{1}{10}$, so $6/10 - 5/10 = 1/10$.

#10



Write every brick with bottom number 6 first. Then $\frac{27}{6}$ sits on $\frac{14}{6}$ and $\frac{13}{6}$, so $27/6 - 14/6 = 13/6$.