

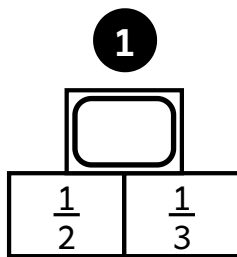


Learn a new puzzle

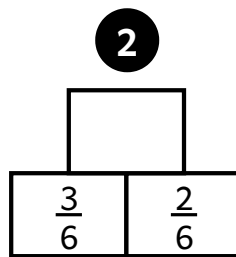
Fraction Puzzles

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

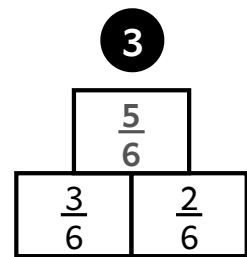
Trick: **Same bottom number**



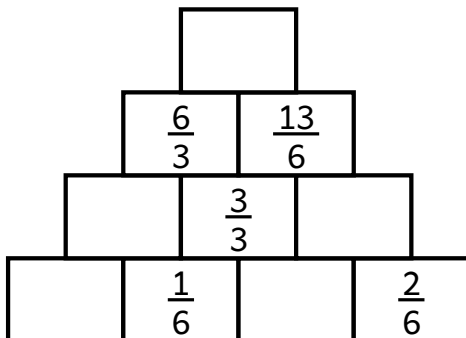
$\frac{1}{2} + \frac{1}{3}$: the bottom numbers differ.



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

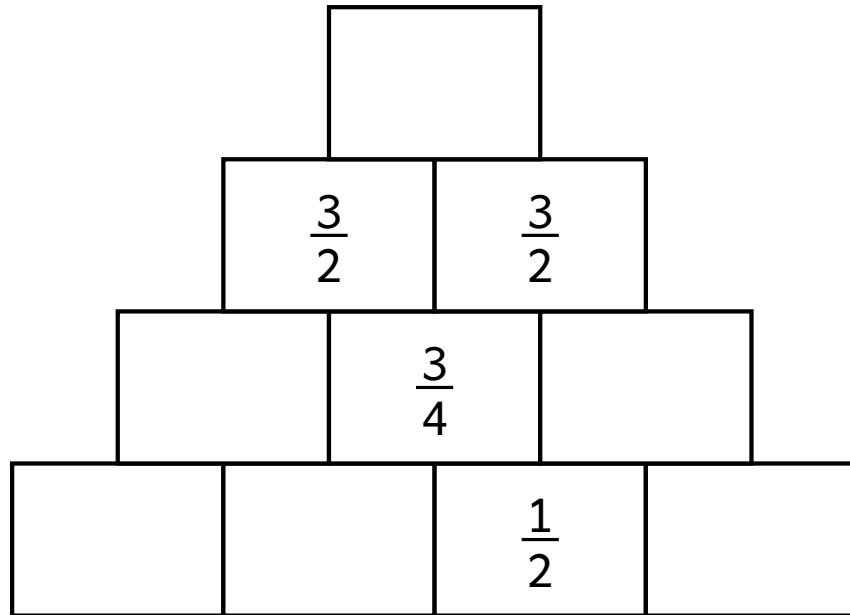
< < <

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

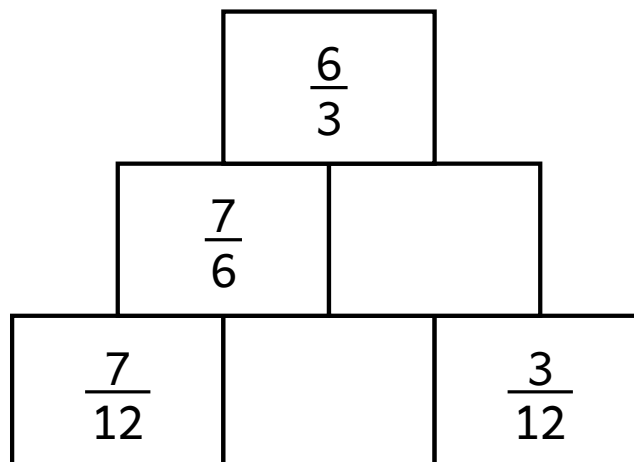
< < <

**5****Fraction Puzzles**

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

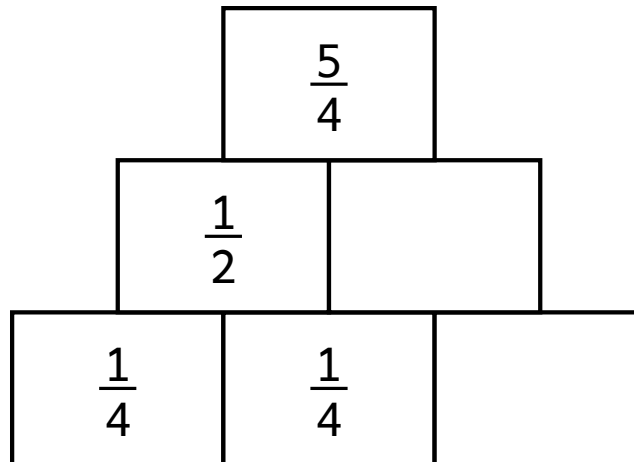
**6****Fraction Puzzles**

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

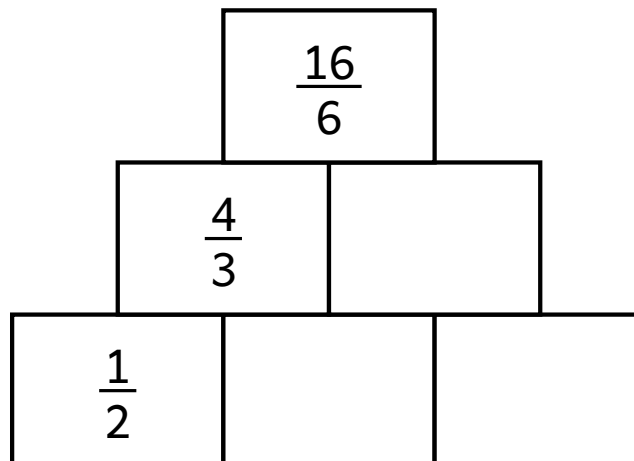


**7****Fraction Puzzles**

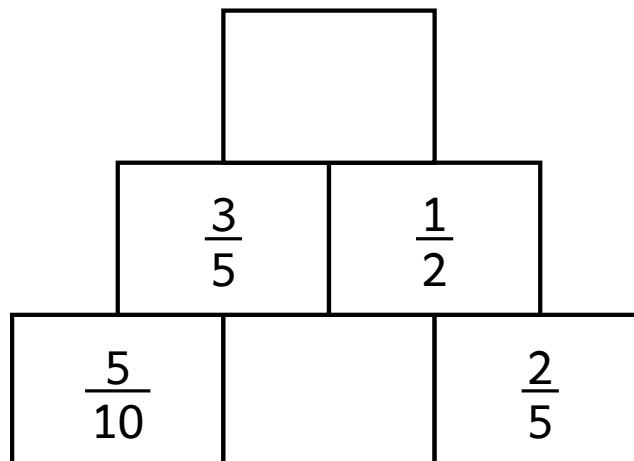
Each brick is the sum of the two below it. Fill in every empty brick. The bricks mix halves and fourths.

**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.

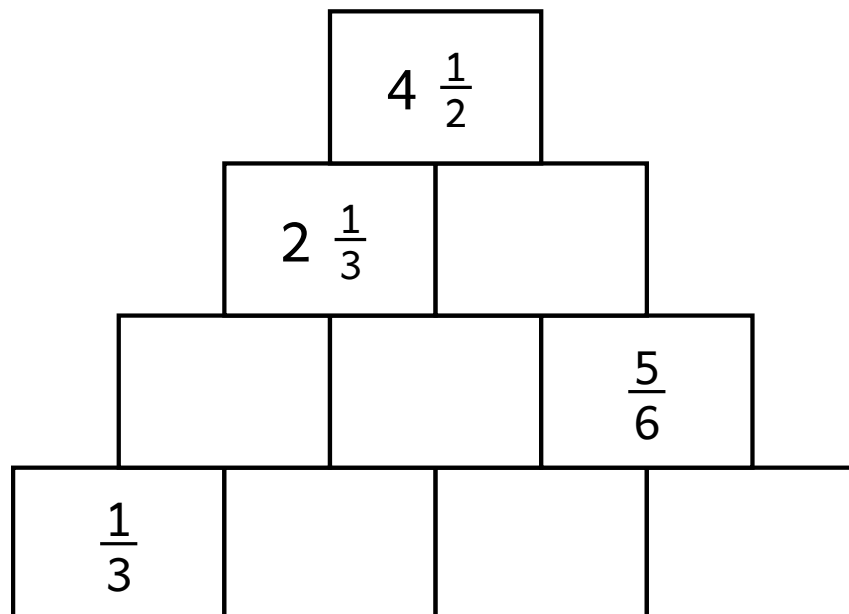




10

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.

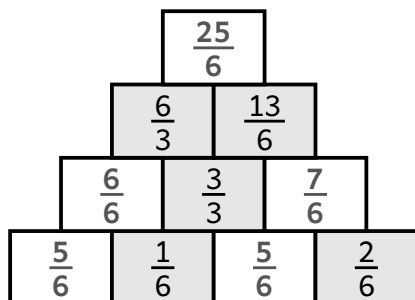




Answers

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

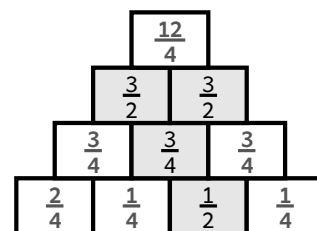
$\left[\frac{1}{12}\right] < \left[\frac{1}{4}\right] < \left[\frac{3}{10}\right] < \left[\frac{2}{5}\right]$

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

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

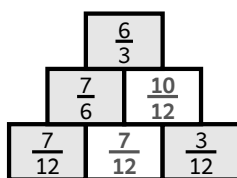
a: 1/12, 1/4, 3/10, 2/5. Give them all the bottom number 60: 5/60, 15/60, 18/60, 24/60. Then compare the tops.
b: 1/12, 1/5, 1/3, 9/10. Give them all the bottom number 60: 5/60, 12/60, 20/60, 54/60. Then compare the tops.

#5



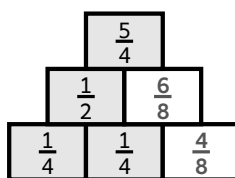
Write every brick with bottom number 4 first. Then 3/4 sits on 2/4 and 1/4, so ? = 3/4 - 2/4 = 1/4.

#6



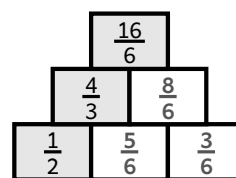
Write every brick with bottom number 12 first. Then 14/12 sits on 7/12 and 7/12, so ? = 14/12 - 7/12 = 7/12.

#7



Write every brick with bottom number 8 first. Then 10/8 sits on 4/8 and 1/4, so ? = 10/8 - 4/8 = 6/8.

#8

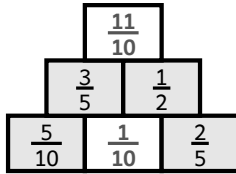


Write every brick with bottom number 6 first. Then 8/6 sits on 3/6 and 1/2, so ? = 8/6 - 3/6 = 5/6.



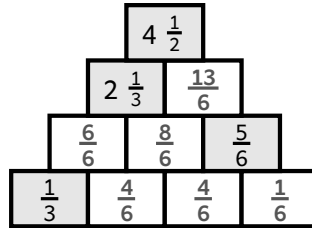
Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#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 $27/6 - 14/6 = 13/6$.