Tuesday

BODMAS/BIDMAS

Brackets Order/Index Division Multiplication Addition Subtraction

$$6 + 4 \times 2 =$$

1.
$$100 - (20 \times 3) =$$

2.
$$(35-15)+(27-7)=$$

3.
$$15 + (6 \times 6) =$$

4.
$$(4+5) \times (3+6) =$$

5.
$$(5 + 5) \times (5 - 2) =$$

6.
$$50 - (6 \times 6) =$$

7.
$$(4 + 8) \times (3 - 2) =$$

8.
$$(9-3)+(6\times6)=$$

Use brackets in these calculations.

How many different answers can you get?

1.
$$4 + 4 \times 5 - 3 =$$

2.
$$8 + 5 \times 1 + 3 - 6 =$$

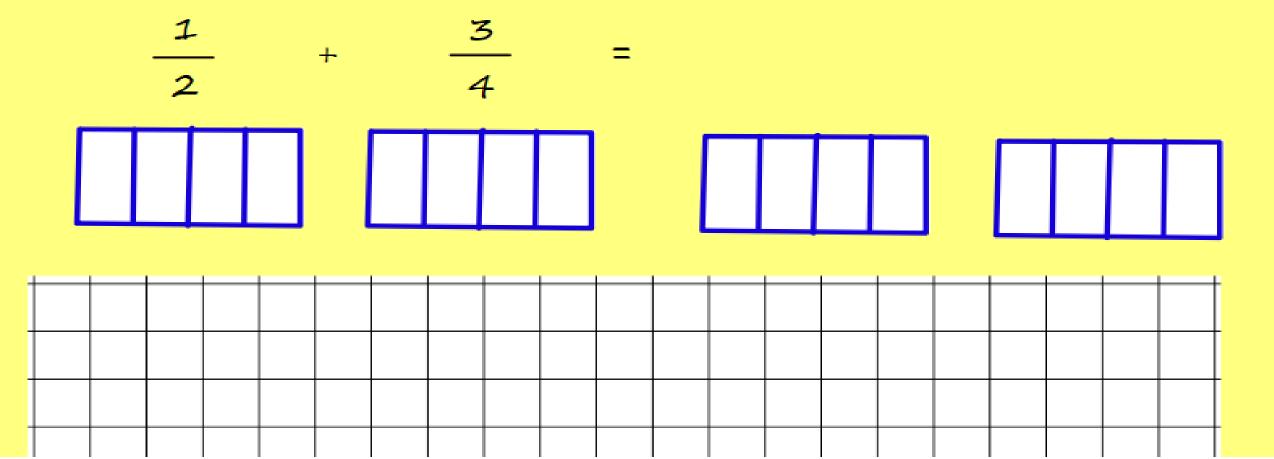
Why are these fractions the same? What do they look like?

$$\frac{15}{20} = \frac{3}{4}$$

Can you draw more examples to show equivalent fractions?

L.O. Add and subtract fractions.

What are the parts of a fraction called? What do fractions look like?
Use paper strips for this calculation.

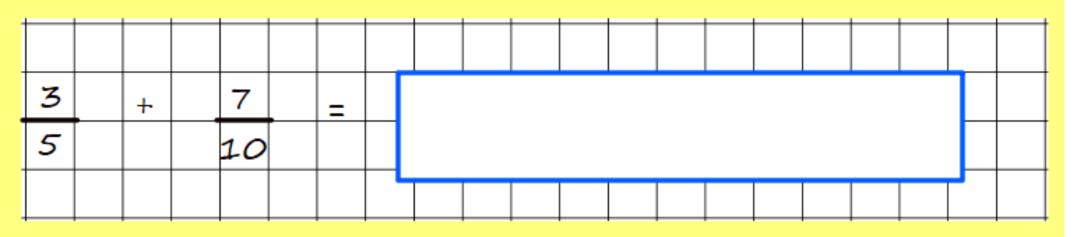


L.O. Add and subtract fractions.

Convert the fractions to equivalents with the same denominator.

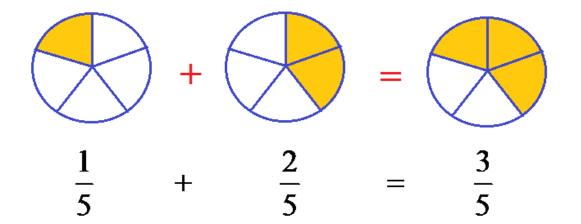
Add the two converted fractions.

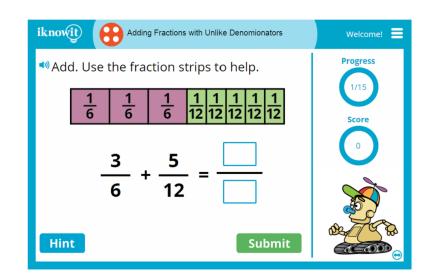
Add on the whole numbers from the original mixed numbers.



4	_	7	er er							
5		10								

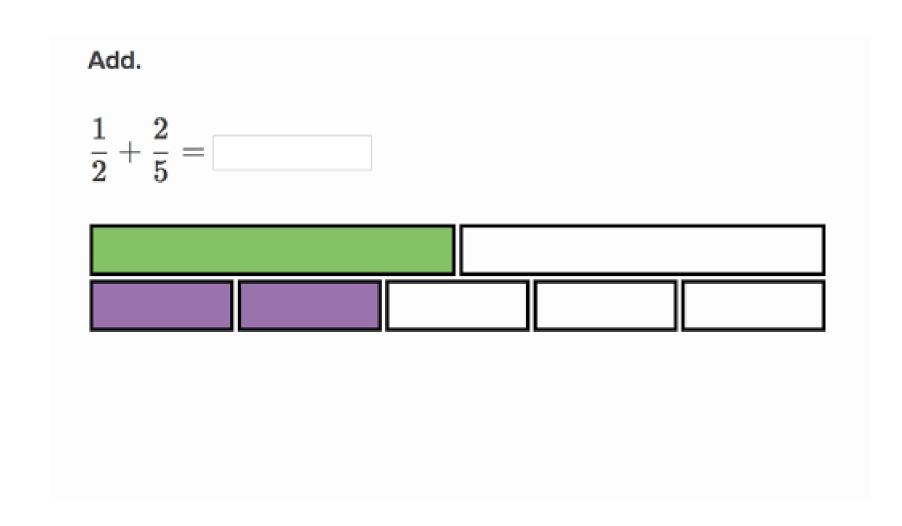
Addition of Fractions





$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$

Why is this a harder progression?



L.O. Add and subtract fractions.

$$\frac{3\frac{4}{9} + 2\frac{5}{6}}{\frac{4}{9} = \frac{8}{18}} \quad and \quad \frac{5}{6} = \frac{15}{18}$$

$$(y)$$
. $\frac{8}{18} + \frac{15}{18} = \frac{23}{18} = 1\frac{5}{18}$

$$1\frac{5}{18} + 3 + 2 = 6\frac{5}{18}$$

$$3\frac{4}{9} - 2\frac{5}{6}$$

$$3\frac{4}{9} = \frac{31}{9}$$
 and $2\frac{5}{6} = \frac{17}{6}$

tor.
$$\frac{31}{9} = \frac{62}{18}$$
 and $\frac{17}{6} = \frac{51}{18}$

$$\frac{62}{18} - \frac{51}{18} = \frac{11}{18}$$

Copy and complete.

$$2\frac{23}{100} + \frac{39}{100} = \frac{1}{100} = \frac{1}{100}$$

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

$$\frac{5}{8} - \frac{3}{8} = \frac{}{8} = \frac{}{8}$$

$$\boxed{5} \ \frac{3}{5} + \frac{4}{5} = \boxed{\boxed{5}} = 1 \boxed{\boxed{5}}$$

$$\boxed{\mathbf{6} \ \frac{7}{12} + \frac{7}{12} = \frac{1}{12} = 1 \frac{1}{12}}$$

$$1\frac{3}{10} - \frac{7}{10} = \frac{1}{10} - \frac{7}{10} = \frac{1}{10}$$

Work out

$$9\frac{1}{5} + \frac{2}{5}$$

$$\mathbb{B} \frac{6}{7} + \frac{4}{7}$$

$$\frac{3}{8} + \frac{3}{8}$$

$$\frac{3}{4} + \frac{3}{4}$$

1
$$\frac{1}{3} - \frac{2}{3}$$

$$\frac{7}{9} - \frac{5}{9}$$

$$1\frac{4}{11} - \frac{9}{11}$$

Work out

$$9\frac{4}{10} + \frac{1}{2}$$

$$\frac{3}{4} + \frac{5}{12}$$

$$\frac{1}{2}$$
 $3\frac{2}{9} + 1\frac{7}{9}$

$$\frac{1}{8} - \frac{1}{4}$$

$$1\frac{1}{3} - \frac{5}{6}$$

$$\frac{16}{12} - 3\frac{11}{12}$$

3

Continue to complete. Write answers in lowest terms or as mixed numbers where necessary.

$$1 \frac{1}{2} + \frac{3}{8} = \frac{3}{8} + \frac{3}{8} = \frac{3}{8}$$

$$2 \frac{11}{12} - \frac{5}{6} = \frac{11}{12} - \frac{2}{12} = \frac{2}{12}$$

$$3 \frac{5}{9} + \frac{1}{3} = \frac{5 + 2}{9} = \frac{2}{9}$$

$$\boxed{4 \over 5} - \frac{7}{10} = \frac{\boxed{} - 7}{10} = \frac{\boxed{}}{10}$$

$$3\frac{2}{7} + 1\frac{3}{7} = 4 \frac{ }{7} = \dots$$

$$\boxed{0} \ 1\frac{7}{11} + 2\frac{10}{11} = 3\frac{1}{11} = \dots$$

$$4\frac{61}{100} - 1\frac{37}{100} = 3\frac{100}{100} = \dots$$

$$8 \cdot 7\frac{4}{9} - 3\frac{5}{9} = 4 \frac{ }{9} = \dots$$

C

Work out

$$0\frac{1}{4} + \frac{1}{3}$$

$$2\frac{2}{7}+\frac{1}{2}$$

$$3\frac{2}{3} + \frac{3}{5}$$

$$\frac{9}{10} + \frac{2}{3}$$

$$6\frac{9}{10} - \frac{3}{4}$$

$$1\frac{1}{6} - \frac{5}{8}$$

8
$$1\frac{1}{2} - \frac{4}{5}$$

$$2\frac{1}{3} + 1\frac{5}{12}$$

$$3\frac{57}{100} + 3\frac{3}{4}$$

1
$$\frac{3}{4} + 1\frac{7}{8}$$

B
$$3\frac{1}{2} - 1\frac{21}{100}$$

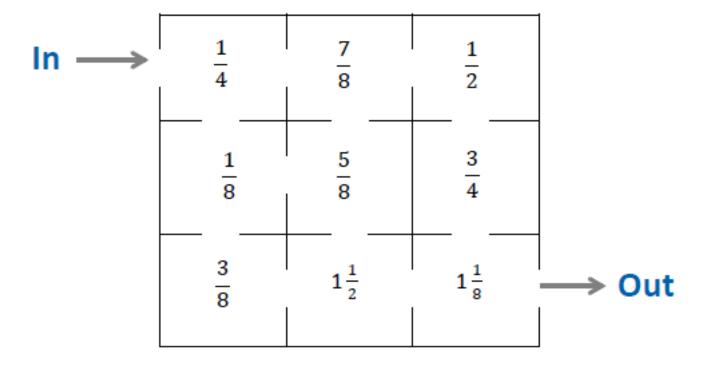
$$4\frac{3}{8} - 3\frac{5}{16}$$

15
$$2\frac{1}{2} - 1\frac{2}{3}$$

$$\mathbf{16} \ 5 \frac{125}{1000} - 2 \frac{4}{5}$$

Fraction Maze

- You can travel through this maze either horizontally or vertically.
- Cells in the maze can be visited only once.
- As you pass through a number, add it to your score.



- Which path gives a total of $4\frac{3}{8}$?
- Which path gives the smallest total?
- Which path gives the largest total?
- Investigate the largest and smallest totals when toy alternately add and subtract the fractions.



$\frac{7}{12}$ 5 $\frac{23}{60}$ 9 $3\frac{3}{4}$ 13 $2\frac{29}{100}$ 2 $\frac{11}{14}$ 6 $\frac{3}{20}$ 10 $7\frac{8}{25}$ 14 $1\frac{1}{16}$ 3 $1\frac{4}{15}$ 7 $\frac{13}{24}$ 11 $7\frac{7}{10}$ 15 $\frac{5}{6}$ 4 $1\frac{17}{30}$ 8 $\frac{7}{10}$ 12 $3\frac{5}{8}$ 16 $2\frac{13}{40}$

Page 44			Super water
A			100-10-7
$1\frac{5}{9}$	$5 \ 1\frac{2}{5}$	$9\frac{3}{5}$	13 $1\frac{3}{7}$
$2\frac{62}{100}$	6 $1\frac{2}{12}$	$10\frac{6}{8}$	14 $1\frac{2}{4}$
$3\frac{2}{4}$	$7\frac{2}{6}$	$11\frac{87}{100}$	15 $\frac{2}{3}$
$4\frac{2}{8}$	$8\frac{6}{10}$	12 $\frac{2}{9}$	16 $\frac{6}{11}$
В			100 100
1 7/8	5 4 5 7	$9\frac{9}{10}$	13 $7\frac{11}{50}$
$2\frac{1}{12}$	6 4 6 11	10 $1\frac{1}{6}$	14 5
3 8/9	7 $3\frac{6}{25}$	11 $\frac{5}{8}$	15 $2\frac{1}{5}$
$4\frac{1}{10}$	8 3 ⁸ / ₉	12 $\frac{1}{2}$	16 $2\frac{2}{3}$