

| Beginners 10 |
|--------------|
| 18 |
| + 6 |
| x 10 |
| + 20 |
| - 6 |
| + 4 |
| + 2 |
| Double it |
| Double it |
| - 9 |
| Answer = |

| Beginners 11 |
|--------------|
| 28 |
| 1/4 of it |
| x 8 |
| - 2 |
| + 6 |
| + 3 |
| x 4 |
| Double it |
| Double it |
| + 6 |
| Answer = |

| Beginners 12 |
|-----------------|
| 5 |
| + 9 |
| + 7 |
| x 5 |
| Times by itself |
| Half of it |
| Half of it |
| + 5 |
| x 4 |
| 1/2 of it |
| Answer = |

Part One: Making Numbers by Adding Consecutive Numbers

Numbers like 7, 8, 9, are called consecutive numbers, they follow directly on, one from another.

We are going to explore which numbers can be made by adding up consecutive numbers.

$7 + 8 + 9 = 24$ So 24 can be made from consecutive numbers

Is there more than one way to make 24 ?

25 for example can be made by $12 + 13$ or by $3 + 4 + 5 + 6 + 7$

Use the table below to systematically record your answers. Continue on the back of this sheet. Perhaps go as far as 50. Make a note of anything you discover that looks interesting.

| | |
|----|-------|
| 3 | 1 + 2 |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |

a $5\frac{8}{9} - 2\frac{2}{9} =$ _____ b $7\frac{5}{10} - 2\frac{3}{10} =$ _____

c $9\frac{6}{7} - 4\frac{4}{7} =$ _____ d $6\frac{4}{5} - 5\frac{3}{5} =$ _____

Answer these, where the fractions in each question have the same denominator, but the second fraction is larger than the first.

a $7\frac{1}{9} - 2\frac{2}{9} =$ _____ b $8\frac{1}{10} - 2\frac{3}{10} =$ _____

c $9\frac{1}{7} - 4\frac{4}{7} =$ _____ d $7\frac{1}{5} - 1\frac{3}{5} =$ _____

Answer these. Change the fractions to have a common denominator.

a $2\frac{4}{9} - 1\frac{1}{3} =$ _____ b $8\frac{3}{4} - 5\frac{3}{8} =$ _____

c $6\frac{5}{8} - 1\frac{3}{4} =$ _____ d $9\frac{7}{12} - 4\frac{2}{3} =$ _____

e $8\frac{2}{3} - 1\frac{4}{5} =$ _____ f $9\frac{7}{10} - 4\frac{4}{5} =$ _____