

Beginners 13
16
Half of it
x 5
- 4
+ 9
x 7
+ 2
Double it
+ 3
+ 7
Answer =

Beginners 14
48
1/4 of it
1/2 of it
x 3
+ 2
Double it
- 4
+ 4
+ 6
Double it
Answer =

Beginners 15
31
- 5
Half of it
- 4
x 7
+ 7
+ 10
- 1
Times by itself
+ 14
Answer =

Magic Squares ☆☆☆ 10

Can you put the digits 1 to 9 in a square so that every row, column and diagonal add to 15?

Two step reductions. Reduce all these fractions by 2 to start with and then see *what else* they will reduce by

21. $\frac{18}{24} = \frac{3}{4}$ 22. $\frac{12}{18} =$ 23. $\frac{10}{30} =$ 24. $\frac{14}{42} =$ 25. $\frac{16}{28} =$

Decide for yourself the *factors* needed to reduce these fractions to their *simplest form* ...

26. $\frac{15}{25} =$ 27. $\frac{16}{24} =$ 28. $\frac{12}{48} =$ 29. $\frac{9}{27} =$ 30. $\frac{150}{200} =$

31. $\frac{4}{16} =$ 32. $\frac{27}{81} =$ 33. $\frac{8}{40} =$ 34. $\frac{6}{4} =$ 35. $\frac{8}{6} =$

This example doesn't work:

1	3	5	→ 9
9	6	4	→ 19
2	7	8	→ 17

↙ 13 ↓ 12 ↓ 16 ↓ 17 ↘ 15