nth term

Find the nth term of this sequence:

7, 12, 17, 22, …

2

5 5 5

5n + 2

Expanding Brackets

Expand:

3(x + 5) = 3x + 15

(x + 2)(x + 5) = $x^2 + 7x + 10$

Product of Prime Factors

Write 90 as a product of prime factors

90 → 2, 45 → 5, 9 → 3, 3

$2 \times 3^2 \times 5$

Multiplying Decimals

71 x 55 = 3405

7.1 x 5.5 = 34.05

	70	1
50	3500	50
5	350	5

3500
350
50
+ 5
3405

Solving Equations

Solve:

4x + 3 = 27

4x = 24

x = 6

Volume of a Cuboid

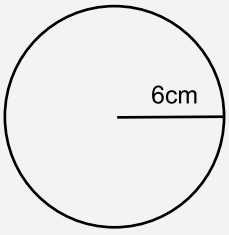
Find the volume of this cuboid



4 x 7 x 3 = 84 cm^3

Area of a circle

Find the area of this circle



$\pi \times 6^2$

$36\pi\ cm^2$

Adding Fractions

$\frac{2}{5} + \frac{2}{7} = \frac{14}{35} + \frac{10}{35} = \frac{24}{35}$

Percentage of an Amount

Find 79% of 300 =

10% = 30

1% = 3

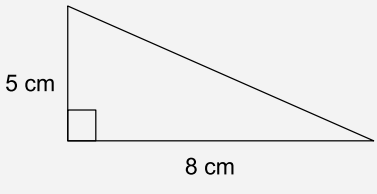
9% = 27

70% = 210

79% = 237

Area of a triangle

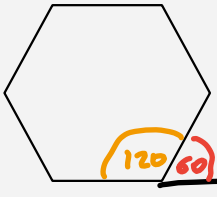
Find the area of this triangle



$\frac{5 \times 8}{2} = \frac{40}{2} = 20\ cm^2$

Angles in Polygons

What is the interior angle of a regular hexagon



360 ÷ 6 = 60

180 - 60 = 120

Reverse Percentages

A TV is reduced by 20% in a sale.
The reduced price is £560.
What is the original price?

80% = 560

÷8 ↓ 10% = 70 ↓ ÷8

×10 ↑ 100% = £700 ↑ ×10