Index Laws

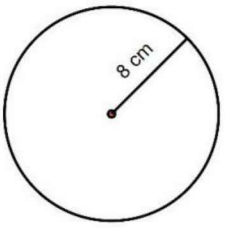
$x^4 \times x^2 =$

$x^4 \div x^2 =$

$(x^4)^3 =$

$x^4 \times x^3 \div x^2 =$

Area and Circumference

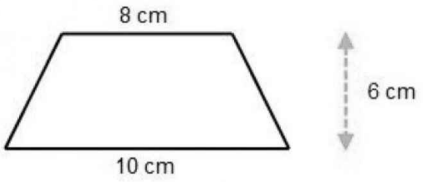


Area =

Circumference =

Give your answers in terms of π

Area of a Trapezium



Area =

Reverse Percentages

A TV is reduced by 20% in a sale. The reduced price is £480.

What is the original price?

Solving Linear Equations

Solve:

$3x + 5 = 5x - 9$

Write as a fraction

0.2 =

0.37 =

0.092 =

12% =

3% =

Quadratics

Expand: (x + 5) (x + 3)

Factorise and solve:

$x^2 - 4x - 45 = 0$

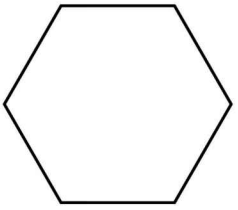
Worded Question

Tanya needs to buy chocolate bars for 130 children.

There are 8 chocolate bars in each packet.

Work out the least number of packets of chocolate bars that Tanya needs to buy.

Interior Angles



Name the shape =

Interior angle =

Exterior angle =

Product of Prime Factors

Write 40 as a product of its prime factors.

Ratio

Will and Kate share £120 in a 2:3 ratio.

How much does Kate get?

Changing the Subject

Make m the subject of the equation:

$n = 3m + 2p$

Error Intervals

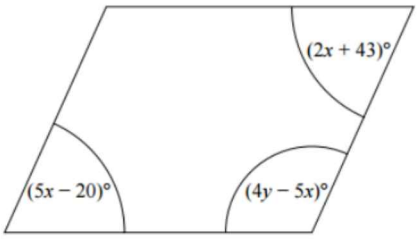
A number y is rounded to 2 decimal places.

The result is 1.27
Write down the error interval for y

…… ≤ y < ……

Forming Equations

Here is a parallelogram



Work out the value of x and y.

Sequences

2, 7, 12, 17, 22,...

What is the nth term?

Is 137 a term of this sequence?

Sin Values

Sin(0°) =

Sin(30°) =

Sin(45°) =

Sin(60°) =

Sin(90°) =

Proportion

Ingredients
to make **16** gingerbread men

180 g flour
40 g ginger
110 g butter
30 g sugar

What are the ingredients for 24 gingerbread men?

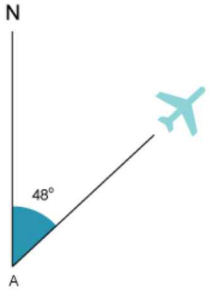
Simultaneous Equations

Solve the simultaneous equations

3x + 2y = 4

4x + 5y = 17

Bearings



What bearing is the plane flying on?

Fractions

1/5 + 5/6 =

2/9 x 3/7 =

2/7 ÷ 3/5 =

Inequalities

Solve:

5x - 2 > 3x + 11

Standard Form

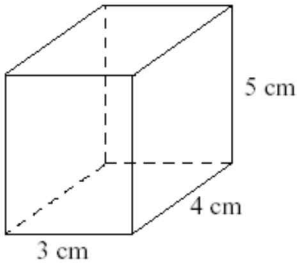
Write 3400 in standard form.

Write 2.367×10^5 as an ordinary number.

Probability

What is the probability of spinning a coin twice and getting 'heads' both times?

Volume and Surface Area



Volume =

Surface Area =