

GCSE Maths Higher - Unit 1 - Number

Multiples of 8:

Factors of 8:

Prime Numbers:

Square Numbers:

Cube Numbers:

Simplify $(g^{-4})^3$

Simplify $17x^3y^{-2} \times 3xy^{-2}$

Work out the value of $\frac{2^3 \times 2^{-6}}{2^{-2}}$

Work out the value of $\left(\frac{64}{27}\right)^{-\frac{2}{3}}$

NAME: _____



Estimate $\frac{\sqrt{8.89 + 3.85^2}}{0.48}$

B

I

D / M

A / S

$$4^2 + 6 \times 12$$

$$5^0$$

$$36^{\frac{1}{2}}$$

$$3^{-1}$$

$$24 - 8 \div (3 - 5)^3$$

Write 1.43×10^5 as an ordinary number

Write 0.000703 in standard form

Write 108 as the product of its prime factors.

What is the HCF and LCM of 108 and 72?

$$\text{Calculate } 6 \times 10^5 \times 4 \times 10^7$$

$$\text{Calculate } (4.5 \times 10^8) - (3 \times 10^5)$$

Simplify:

$$\sqrt{300}$$

$$\sqrt{32}$$

$$\sqrt{10} \times \sqrt{5}$$

$$2\sqrt{6} \times 3\sqrt{3}$$

Expand:

$$\sqrt{5}(2 + \sqrt{5})$$

$$(2 - \sqrt{5})(2 + \sqrt{5})$$

Rationalise:

$$\frac{7}{\sqrt{2}}$$

$$\frac{15}{\sqrt{3}}$$

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First 5 multiples of 12:

Factors of 18:

Prime numbers between 20 & 30:

A number between 50 & 100 which is a square number and a cube number:

Simplify $(m^2)^3$

(1)

Simplify $x^5 \times x^8$

(1)

Simplify $12x^7y^3 \div 6x^3y$

(2)

Work out an estimate for the value of $\sqrt{63.5 \times 101.7}$

(2)

A cone has a volume of 98 cm^3 .
The radius of the cone is 5.13 cm .

(a) Work out an estimate for the height of the cone.

Work out $3 \times 5 + 7$

(1)

Work out 2^3

(1)

Write brackets () in this statement to make it correct.

$$7 \times 2 + 3 = 35$$

(1)

Simplify fully $(3x^5y^6)^4$

(2)

Write 4.5×10^5 as an ordinary number.

(1)

Write 0.007 in standard form.

(1)

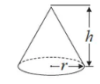
Work out $4.2 \times 10^3 + 5.3 \times 10^2$
Give your answer in standard form.

(2)

Find the Lowest Common Multiple (LCM) of 24 and 40

(2)

$$\text{Volume of cone} = \frac{1}{3} \pi r^2 h$$



.....cm

(3)

Express $\sqrt{3} + \sqrt{12}$ in the form $a\sqrt{3}$ where a is an integer.

(2)

Rationalise the denominator of $\frac{22}{\sqrt{11}}$

Give your answer in its simplest form.

(2)