A cube has a volume of x^3 cm^3
Calculate the surface area of the cube in terms of x

…… **cm²**

Work out the difference between $\frac{3}{8}$ of 32 and $\frac{2}{5}$ of 40

……

Expand $(\sqrt{2} + 1)(\sqrt{2} - 1)$

……

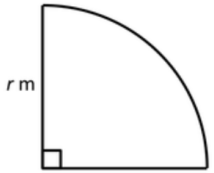
In a sale, the normal price of a car is reduced by 30%.
The sale price of the car is £5250.
Work out the normal price of the car.

£ ……

A circle has a circumference of 18π cm.
Calculate the area in terms of π

…… **cm²**

The area of the sector is 16 π cm^2.
Find r



r = ……

$3\frac{4}{9} \times 6$

……

$2\frac{4}{7} \div 3$

……

A = 2^2 x 3 x 5
B = 2 x 3^2 x 5

Find the HCF of A and B

……

Find the LCM of A and B

……

Evaluate $27^{-1/3}$

……

Evaluate 5^{-3}

……

Evaluate $(\frac{64}{125})^{-\frac{2}{3}}$

……

Evaluate $(\frac{9}{4})^{-\frac{3}{2}}$

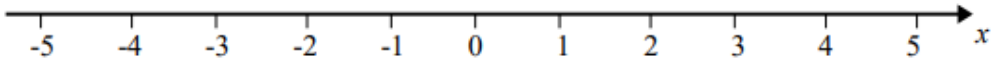
……

3y = - $\frac{3}{7}$x + 24

Equation of a line that is parallel ……

Equation of a line that is perpendicular ……

On the number line show the inequality $-2 < x \leq 3$



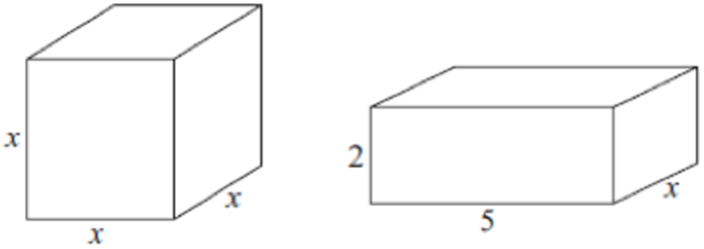
$-11 \leq 3y - 8 < 1$ where y is an integer.
Write down all the possible values of y.

.....

Solve $2(3x + 4) < 4(x + 7)$

.....

The cube and the cuboid have the same surface area.
Find the value of x



.....

Simplify

$$\frac{4x + 20}{x^2 - 25}$$

Simplify

$$\frac{x + 4}{x + 2} \div \frac{x + 4}{x + 6}$$

One electron has a mass of 5×10^{-20} grams.
Find the mass of 300 of these electrons.
Give your answer in standard form.

.....

Write these numbers in order of size.
Start with the smallest number.

4.5×10^{2} 0.045×10^{5} 450×10^{-2} 45×10^{0}

.....