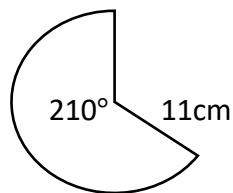


December Daily Tasks Days 8 - 14

8. Solve $3\cos x^\circ + 2 = 0$ for $0^\circ \leq x \leq 360^\circ$
9. A candle in the shape of a cube with sides 9cm is remoulded into a cone with a radius of 5cm.
Calculate the height of the remoulded candle.
10. A rocket travels around an orbit at an average speed 3.25×10^{11} km per hour.
Its mission is expected to last 30 days.
Calculate the total distance travelled by the rocket.
Give your answer in scientific notation, correct to 3 significant figures.
11. Solve $2x^2 - 6x - 1 = 0$, correct to 1 decimal place.
12. Express as a single fraction in its simplest form.

$$\frac{5}{2x-1} - \frac{4}{3x+4}$$

13. Calculate the area of the sector below.



14. The shape below is made of 3 congruent sectors with radius 6cm and a height of 18cm.
Calculate its total length, l cm

