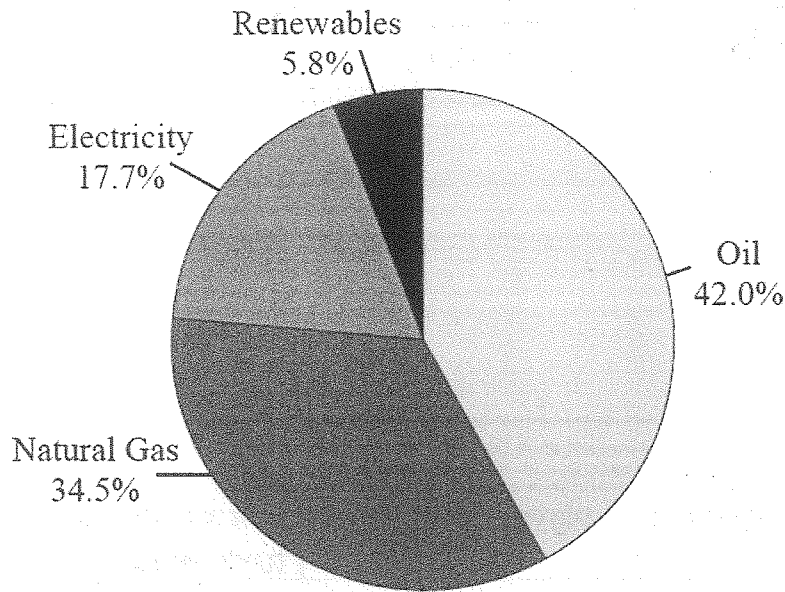


m2 = 24 days to go!

- 4 This pie chart shows energy use by type of fuel.



- (a) Which type of fuel is used most?

biggest slice

Answer Oil [1]

- (b) Measure the angle for electricity.

Answer 63° [1]

- (c) Sean thinks about $\frac{3}{4}$ of energy use comes from oil and natural gas.

Explain why Sean is correct.

Answer Oil 42.0% + Gas 34.5% = 76.5%

Yes Sean is correct because 76.5% \approx 75% $\approx \frac{3}{4}$
 \approx approximately

- (d) Complete the statement below with a suitable number in the box.

The fraction $\frac{\text{renewables}}{\text{electricity}}$ is about $\frac{1}{\boxed{3}}$ [1]

$$\frac{5.8}{17.7} \approx \frac{6}{18} \approx \frac{1}{3}$$

18 Calculate

$$\frac{\sqrt{1.1 \times 4.4}}{(3.2 - 2.65)}$$

$$\frac{\sqrt{4.84}}{0.55} = \frac{2.2}{0.55} = 4$$

Answer _____ [2]

27 Each player in a group of 15 players scored either 2 or x goals.

How many?

Number of goals	Frequency
2	10
x	5

2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2

x, x, x, x, x

The mean number of goals per player was 3

Calculate x .

mean = adding up \div how many

$$3 = \frac{2+2+2+2+2+2+2+2+2+2+2+x+x+x+x+x}{15}$$

$$3 = \frac{20 + 5x}{15}$$

Answer $x = 5$ [3]

$$\begin{array}{l} 45 = 20 + 5x \\ (-20) \quad (-20) \\ 25 = 5x \\ (\div 5) \quad (\div 5) \\ 5 = x \end{array}$$