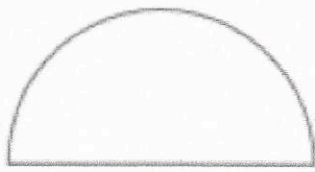


2nd January



Corbettmaths

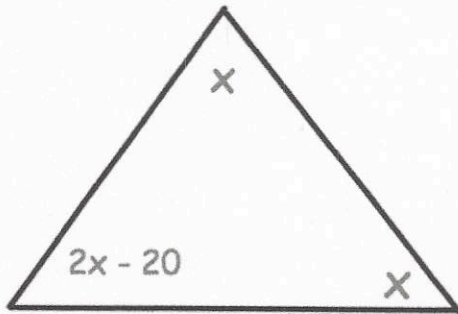


12cm

Calculate the perimeter of this semi-circle.

Leave your answer in terms of π

$$6\pi + 12 \text{ cm}$$



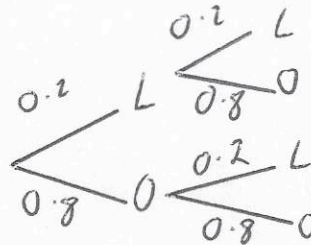
Find the value of x

$$\begin{aligned} 4x - 20 &= 180 \\ 4x &= 200 \\ x &= 50^\circ \end{aligned}$$

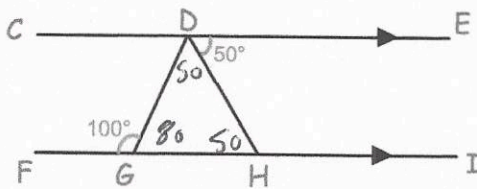
The probability of a bus being late on any day is 0.2

James gets the bus on Monday and on Tuesday.

What is the probability that both buses are on time?



$$P(OO) = 0.8 \times 0.8 = 0.64$$



CE and FI are parallel lines.
 Angle EDH = 50°
 Angle DGF = 100°

Show, giving reasons, that triangle DGH is isosceles.

$\angle DGH = 80^\circ$ (angles on a straight line add up to 180°)
 $\angle DHG = 50^\circ$ (alternate angles are equal)
 $\angle GDH = 50^\circ$ (angles in a triangle add to 180°)
 Since two angles are equal, DGH is isosceles

Write 50000 in standard form

$$5 \times 10^4$$

Write 0.0043 in standard form

$$4.3 \times 10^{-3}$$