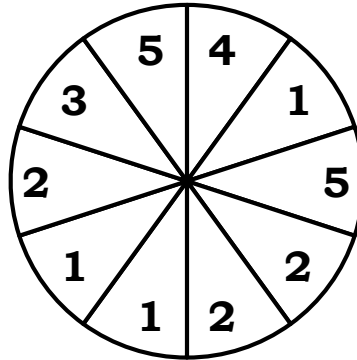


**HIGHER TIER
MINI PRACTICE EXAM 5**

**NON-CALCULATOR
20 MINUTES ALLOWED**

1.
Below is a fair spinner.



Andy is going to spin the spinner 50 times.
How many times would you expect him to land on an even number?

2. (2)

Work out $\sqrt{6\frac{3}{4} \div 5\frac{1}{3}}$. Give your answer as a mixed number.

3. (3)

Work out $9^{3/2} \times 1000^{-1/3}$. Give your answer as a decimal.

4. (3)

Rationalise the denominator of $\frac{3+\sqrt{2}}{\sqrt{5}}$.

(3)

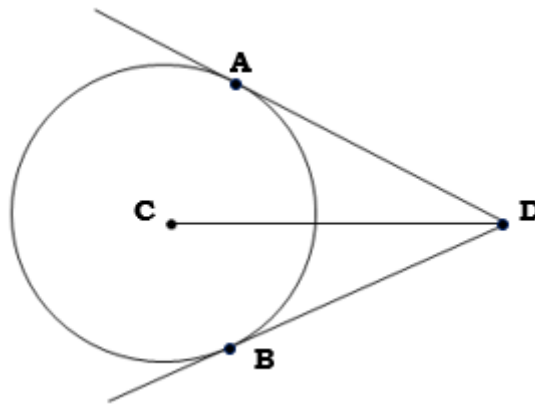
5.

C is the centre of the circle.

A and B are points on the circumference of the circle.

Angle ADC = 39° .

Find the size of angle CAB.

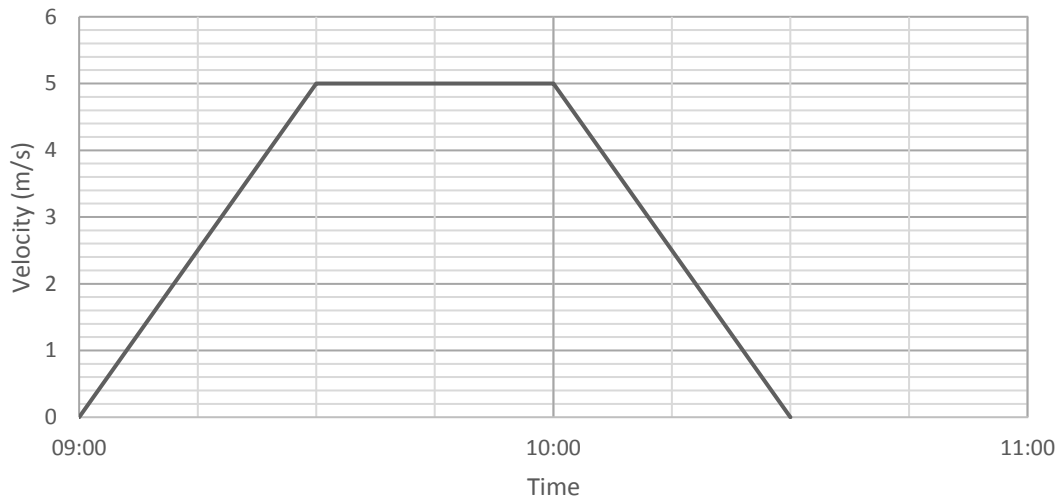


(4)

6.

Brian went for a bike ride.

The velocity-time graph below shows his journey.



Brian says "I cycled 18 kilometres".

Is Brian correct?

(5)