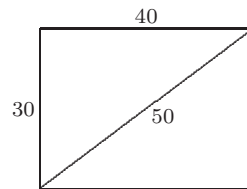


**AUSTRALIAN MATHEMATICS COMPETITION  
WARM-UP PAPER  
UPPER PRIMARY 8**

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1. A park is 40 metres long, 30 metres wide and 50 metres across diagonally.

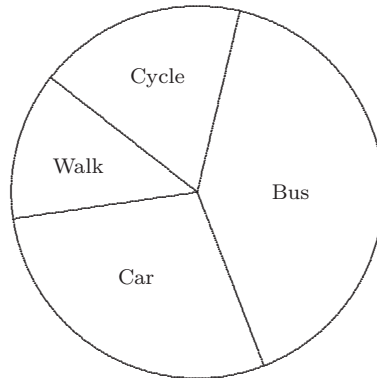


How many metres less is it to walk diagonally across the park rather than around the two sides?

- (A) 10                      (B) 20                      (C) 30                      (D) 40                      (E) 50
2. In the number sentence,  $3 \square 5 + 6 = 21$ , which mathematical symbol is represented by the square?
- (A) =                      (B) +                      (C) -                      (D)  $\times$                       (E)  $\div$
3. Brett is 12 years old. Daina is half of Brett's age. Omar is 13 years older than Daina. How old is Omar?
- (A) 39                      (B) 11                      (C) 25                      (D) 19                      (E) 16

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4. The pie chart below shows how the children in a class go to school.



Which statement is true?

- (A) More than half the students either walk or cycle.
  - (B) More than half the students come to school by car.
  - (C) More than a quarter of the students walk to school.
  - (D) More than half the students either take the bus or cycle to school.
  - (E) More students walk to school than come by car.
5. Two whole numbers multiplied give a total of 60. The difference between the numbers could be
- (A) 3                      (B) 5                      (C) 6                      (D) 8                      (E) 11
6. The digits 7, 5, and 9 are written on three cards as shown.



Six different 3-digit numbers can be made using these three cards. If these numbers are arranged from the smallest to the largest, in which position is 795?

- (A) second                      (B) third                      (C) fourth                      (D) fifth                      (E) sixth

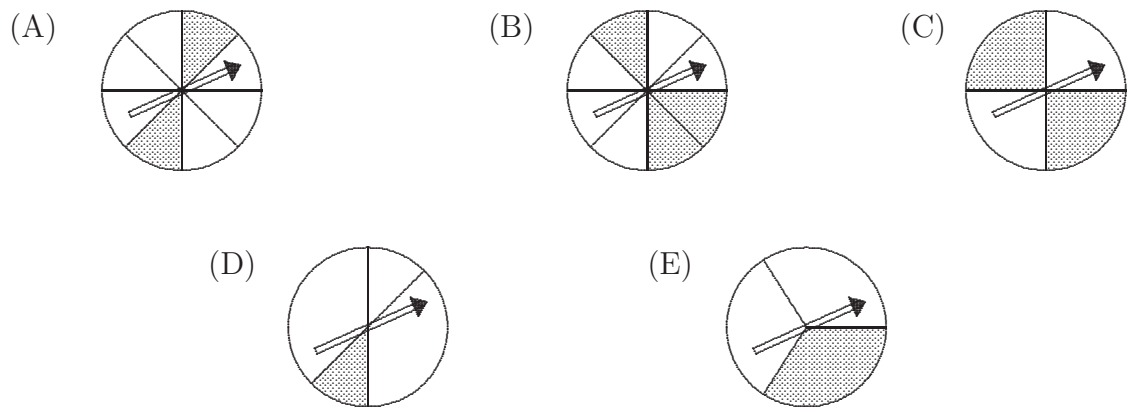
7. There are five blocks of different colours stacked on top of each other. The red block is above the purple block, the blue block is underneath the orange block and the green block is below the blue and above the red.

Which colour is the bottom block?

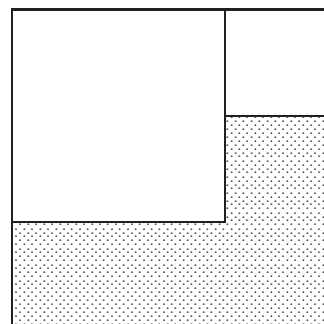
- (A) red                      (B) green                      (C) blue  
 (D) orange                      (E) purple



8. Which of the spinners below would give a one-in-four chance of the arrow landing in the shaded region?



9. A large square contains two small squares with areas 25 square centimetres and 4 square centimetres. What is the perimeter, in centimetres, of the shaded area?



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- 10.** When a maths class is split into groups of four, there are two students left. When split into groups of 5, there is one left. There are 15 girls in the class and a smaller number of boys. How many boys are there in the class?