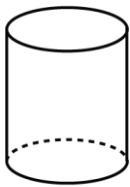


# Mathematica Centrum

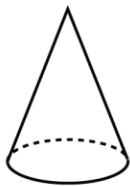
Together, let's shape the mathematicians of the future

## THALES PREPARATORY TEST 2025

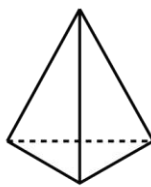
1. Which solid has 6 edges, 4 vertices, and 4 faces?



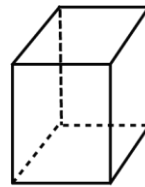
A



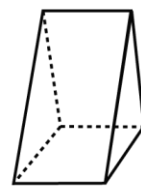
B



C



D



E

2. The product of  $2 \times 3 \times 7$  is

A) 30

B) 20

C) 40

D) 42

E) 35

3. What number is 8 less than the number that is 8 more than 10?

A) 40

B) 0

C) 20

D) 30

E) 10

4. The number of sides of a pentagon multiplied by the number of sides of an octagon is equal to

A) 32

B) 48

C) 42

D) 40

E) 14

5. The double of one-quarter of the quadruple of 32 is equal to

A) 64

B) 57

C) 67

D) 62

E) 76

6. The tens digit of the product of  $50 \times 18$  is

A) 1

B) 0

C) 2

D) 4

E) 9

7. How many blocks are there in the pile shown?

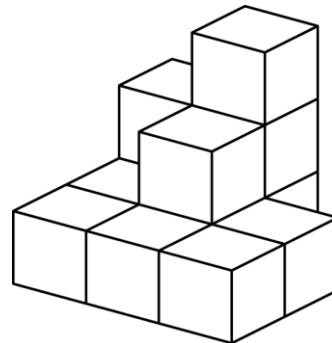
A) 11

B) 12

C) 13

D) 14

E) 15



8. The value of  $X$  in the equation:  $10 - X = 1 + 3$  is

A) 3

B) 4

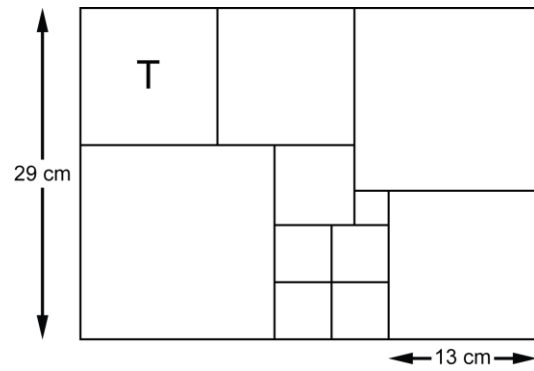
C) 5

D) 2

E) 6



19. Theo used square tiles to completely cover a rectangular surface. Using the measures given in the diagram, find the perimeter of tile T. The sum of the perimeter of the tile T and the perimeter of the rectangular surface is equal to



- A) 187 cm      B) 186 cm      C) 188 cm      D) 189 cm      E) 190 cm