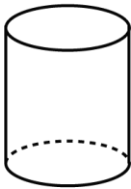


Mathematica Centrum

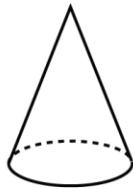
Together, let's shape the mathematicians of the future

BYRON-GERMAIN PREPARATORY TEST 2018

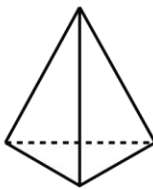
1. Which solid has 12 edges?



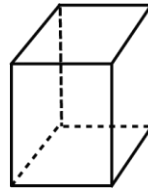
A



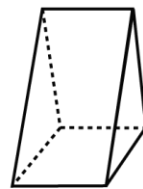
B



C



D



E

2. How many \$5 cereal boxes can you buy with \$24?

A) 3

B) 5

C) 4

D) 2

E) 6

3. The value of X in the following equation: $2 + 9 + X + 3 - 2 = 13$ is

A) 1

B) 3

C) 2

D) 4

E) 0

4. The quotient of $210 \div 70$ is

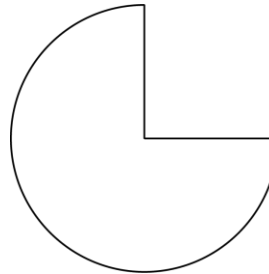
A) 2

B) 3

C) 5

D) 4

E) 6



5. What fraction of the pie has been eaten?

A) $1/6$

B) $1/5$

C) $1/4$

D) $1/3$

E) $1/2$

6. The value of the ? in the equation: 20 quarters = ? quarters + 40 dimes is

A) 6

B) 7

C) 8

D) 5

E) 4

7. The tens digit in the product of 9×15 is

A) 5

B) 3

C) 1

D) 2

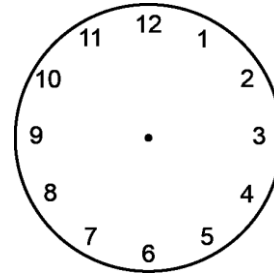
E) 4

17. The sum of two consecutive odd numbers is 16. What is their product?

- A) 64 B) 35 C) 63
D) 56 E) 99

18. If the minute hand of a clock goes around 60 times, how many times will the hour hand go around?

- A) 5 times B) 1 time C) 20 times
D) 60 times E) 2 times

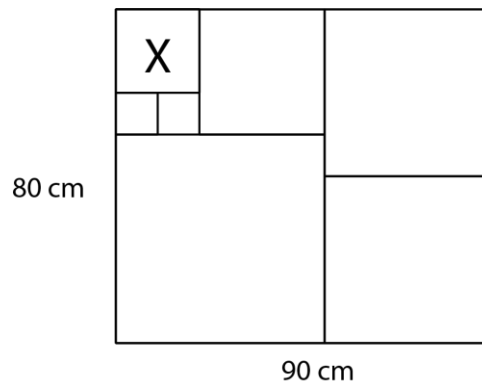


19. A bag contains 4 red balls, 3 green balls, and 2 blue balls. If you randomly choose one of these balls, what is the probability that the ball chosen is blue?

- A) $\frac{2}{6}$ B) $\frac{2}{9}$ C) $\frac{2}{5}$
D) $\frac{2}{3}$ E) $\frac{1}{2}$

20. Melissa has used square tiles to completely cover a 80 cm x 90 cm rectangular surface. What is the length of the side of tile X?

- A) 30 cm B) 20 cm C) 25 cm
D) 10 cm E) 15 cm



21. Matusalem has paid \$30 for glass containers costing \$3 and \$2 each. How many \$3 containers could he have bought?

- A) 9 B) 5 C) 8 D) 12 E) 7