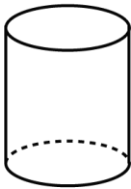


Mathematica Centrum

Together, let's shape the mathematicians of the future

THALES PREPARATORY TEST 2018

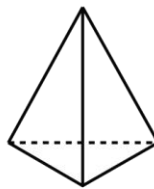
1. Which solid has 12 edges?



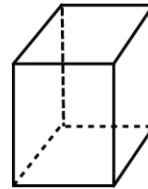
A



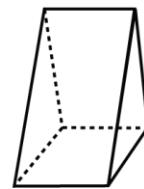
B



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 $21 \div 7$ is

A) 2

B) 3

C) 5

D) 4

E) 6

5. What fraction of the pie has been eaten?

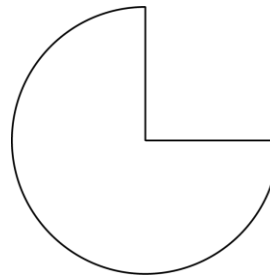
A) $\frac{1}{6}$

B) $\frac{1}{5}$

C) $\frac{1}{4}$

D) $\frac{1}{3}$

E) $\frac{1}{2}$



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

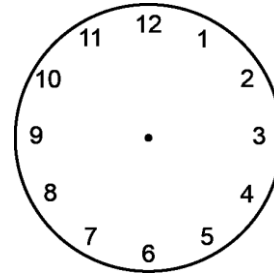
E) 4

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

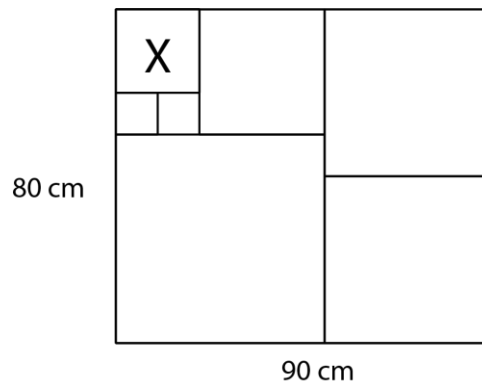


19. A bag contains 4 red balls, 3 green balls, and 2 blue balls. If you randomly choose one of these balls, what is the probability that the ball chosen is blue?

- 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. Mathusalem 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