Mathematica Centrum Together, let's shape the mathematicians of the future

FIBONACCI PREPARATORY TEST 2017

1. 3 + 1 + 6 = ?A) 6 B) 7 C) 8 D) 9 E) 10 2. Which solid has 4 flat faces, 6 edges and 4 vertices? А В С D F 3. Which product has the smallest ones digit? A) 1 x 2 x 3 B) 3 x 4 x 5 C) 6 x 7 x 8 D) 7 x 9 x 11 E) 9 x 11 x 13 **4.** $20 \div (7 - 5) = ?$ A) 10 D) 12 B) 6 C) 8 E) 9 5. How many odd number are there between 19 and 31? A) 4 B) 6 C) 5 D) 7 E) 8 **6.** The value of X in the equation: 512 = 317 + X is B) 193 A) 192 C) 194 D) 195 E) 196 7. Round 10 777 to the nearest thousand. The answer is A) 10 800 B) 11 000 C) 10 700 D) 10 999 E) 9000 **8.** 10 nickels = ? quarters. A) 10 B) 6 C) 3 D) 4 E) 2

- **9.** Andrea counted backwards from 30 by 3's. How many of the following numbers: 8, 12, 14, 21, and 27 were not counted by Andrea?
 - A) 1 B) 4 C) 2 D) 3 E) 0

10. An answering machine can store 10 minutes of messages. How many 20 second messages could it store?

- A) 30 B) 20 C) 50 D) 60 E) 40
- **11.** How many natural numbers between 7 and 77 are multiples of 7?
 - A) 8 B) 9 C) 10 D) 11 E) 12
- **12.** What fraction of the figure is shaded?
 - A) 1/5 B) 1/2 C) 1/3 D) 1/4
- 13. Which two figures are rotation images of each other?



E) 2/5

- **14.** 1 dm + 20 mm is equal to
 - A) 10 cm B) 8 cm C) 110 mm D) 12 cm E) 90 mm

15. Given that the side of a small square is 1, how many of the following have a perimeter of 12?





A) 201 B) 202 C) 204 D) 203 E) 206

24. Four friends W, X, Y, and Z are walking in a straight line, but not in the order shown. Y is not second. X is right behind Y. Z is right behind W, who is not third. Who is third?



25. The clock shown in the diagram has just lost its minute hand. At what time, approximately, did it lose it?

A) Y

C) Z

A)	10:00	B)	10:22
C)	10:05	D)	10:30
E)	10:45		

