

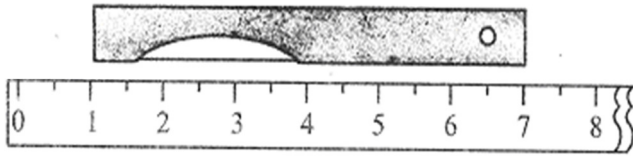
Name: _____ Grade: _____ Score: _____

2016 MathEdge+ Jump Start and Beginner Contest

Read here first: Grade K and Grade 1 students do problems 1 – 10. Grade 2 & 3 students do problems 1 -15. Allowed time is 30 minutes. No calculator is allowed. In case of tie break, the last few problems will be used to decide the winner.

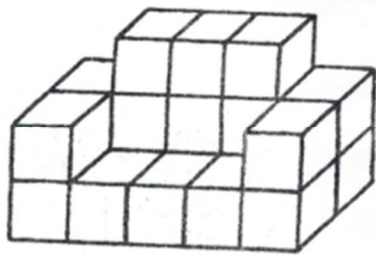
Problem 1-5: 1pt each, Problem 6-10: 2 pts each, Problem 11-15: 3 pts each

1. (1 point) How many units long is the cutter? Answer: _____



2. (1 point) How many cubes are there to form the figure?

Answer: _____ cubes

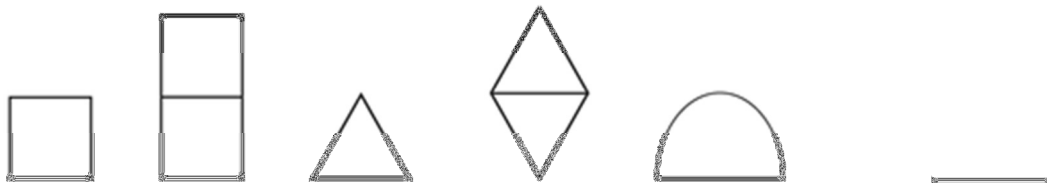


3. (1 point) The number on each ball shows its weight. Which ball should you move to the opposite side to balance the scale?

Answer: _____



4. (1 point) Draw what comes next.



5. (1 point) How many whole hundreds are in 2016? Answer: _____

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6. (2 points) In year 2016, Daniel is 7 years old. His mother is 24 years older than him. His aunt is 22 years older than his mother. How many years younger is Daniel than his aunt?

Answer: _____

7. (2 points) After Anne gave Chris \$18, both of them had the same amount of money. Originally, how much more money did Anne have than Chris?


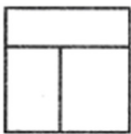
Answer: _____

8. (2 points) I have a square of side length 20 m. If I increase each side by 2 m, what will be the perimeter of the new square?

Answer: _____

9. (2 points) A basket containing apples and oranges weighs 40 kg. After removing half of the apples, it weighs 22 kg. How heavy is the whole basket of apples at first? How heavy is the basket of oranges?

Answer: _____

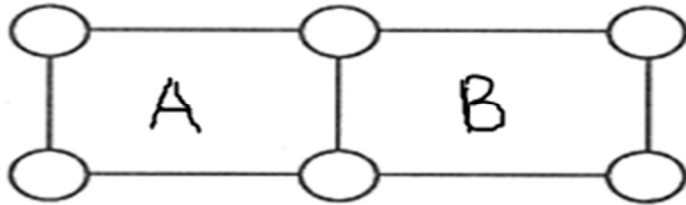
10. (2 points)  has _____ triangles.  has _____ quadrilaterals

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11. (3 points) Fill in the 6 corners of rectangle A and rectangle B joining one side with a different number selecting from {2, 3, 4, 5, 6, 7} (each number is used only once) so that the sum of the 4 corner numbers for rectangle A and the sum of the 4 corner numbers for rectangle B are the same with the value 20.



12. (3 points) Krista worked on adding two 3-digit numbers. For the first 3-digit number, she mistook the one place digit as an “8” when it should be a “6”, and the tenth place digit for a “1” instead of a “9”. She also missed the “0” in the second 3-digit number “307”. She calculated the sum to be 233. What should be the correct answer?

Answer: _____

13. (3 points) The time now is 8:25:30 in the format of hours:minutes:seconds. What will be the time when the minute hand moves two and three quarter revolutions (A revolution is one completed turn)

Answer: _____

14. (3 points) The following is a magic square. A **magic square** is an arrangement of different numbers where the numbers in each row, and in each column, and the numbers in diagonal, all add up to the same number. Find the value of “d”. Answer: _____

a	b	21
c	d	e
23	f	g

15. (3 points) Calculate the quotient.

$(11 \times 10 \times 9 \times \dots \times 3 \times 2 \times 1) \div (22 \times 24 \times 25 \times 27)$ Answer: _____