

Sample Documents

**IL Elem Math Contest
(IEC)**

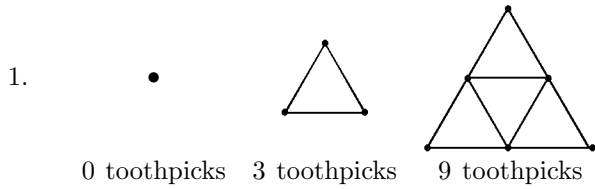
EDUCAIDE SOFTWARE

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Name _____

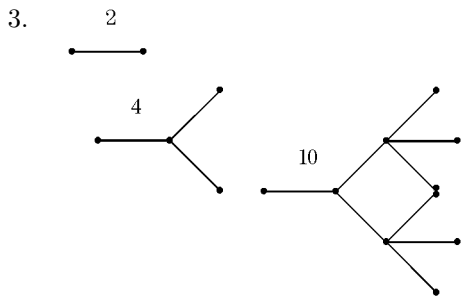
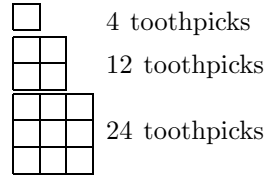
Teacher _____

Section I. (No explicit directions.)



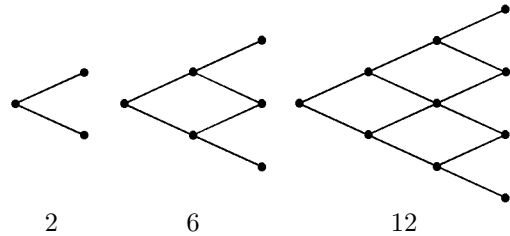
How many toothpicks will be in the next drawing of the pattern?

2. How many toothpicks will be in the next picture?

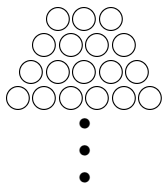


How many dots will be in the next drawing?

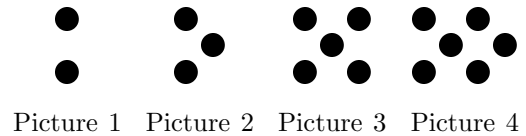
4. How many segments will be in the next drawing?



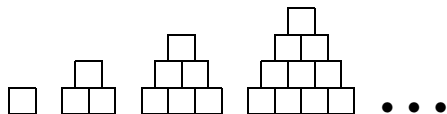
5. How many circles will be in the 16th row?



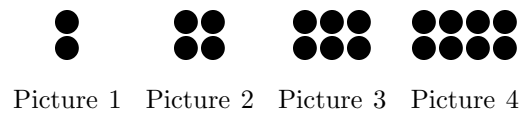
6. How many total dots will be in picture 13?



7. How many squares will be in the 7th picture?



8. How many dots will be in Picture 25?



Section II. Add.

1. Find the sum of the missing numbers:

1, 3, 5, 7, _____, _____, _____, 15, 17 _____,
_____, 23




2. Find the sum of the missing numbers in the pattern:




1, 3, 5, 7, _____, _____, _____, 15, 17, 19




3. Find the sum of the missing numbers in the pattern:
 1, 3, 5, 7, 9, _____, _____, _____, _____, _____,
 31, 33, 35

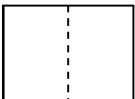


4. Find the sum of the missing numbers in the pattern:
 21, 22, 23, _____, _____, _____, _____, 28, 29,
 30

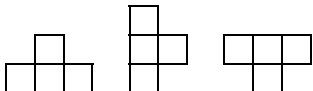
Section III. Draw each of the following.

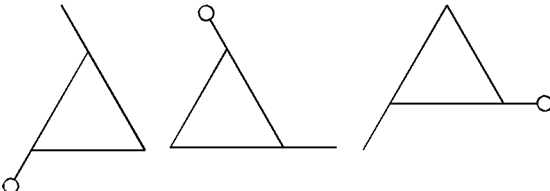
1.  is to  as  is to _____.

2. Draw the next picture:  is to  as  is to _____.

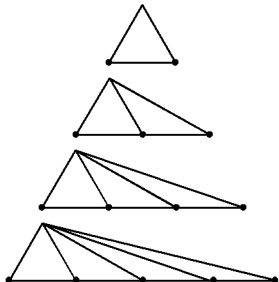
3. Draw the next picture:  is to  as  is to _____.

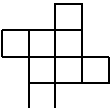
4. Draw the next picture:  is to  as  is to _____.

5. Draw the next figure.


6. Draw the next figure:


Section IV. Extra credit: solve.

1.  1 triangle
3 triangles
6 triangles
 n triangles

2. How many squares are in the figure shown?


Find the value of n .

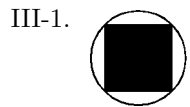
Answer List

I-1. 18

I-4. 20

I-7. 28

II-2. 33



III-4. ○

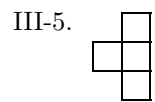
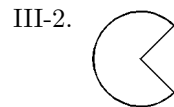
IV-1. 10

I-2. 40

I-5. 18

I-8. 50

II-3. 200



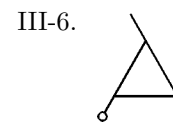
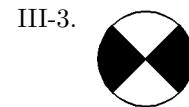
IV-2. 9

I-3. 34

I-6. 20

II-1. 73

II-4. 102



Catalog List

I-1. IEC AB 47

I-4. IEC AC 77

I-7. IEC AB 7

II-2. IEC AC 5

III-1. IEC AB 37

III-4. IEC AC 49

IV-1. IEC AA 68

I-2. IEC AA 36

I-5. IEC AA 9

I-8. IEC AB 55

II-3. IEC AA 47

III-2. IEC AB 69

III-5. IEC BA 3

IV-2. IEC AA 55

I-3. IEC AA 80

I-6. IEC AA 38

II-1. IEC AB 14

II-4. IEC AA 17

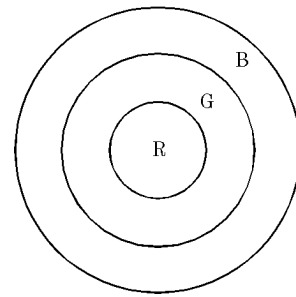
III-3. IEC AA 11

III-6. IEC BC 37

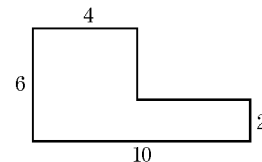
ICTM 3rd Grade Mathematics Contest

(1996–1997) — Team (#1)

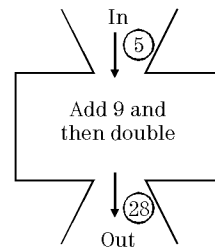
1. Three darts were thrown at the dart board and the total was 24. If red is 10 points, green is 7 points and blue is 5 points, which color was not hit?



2. Find the perimeter.

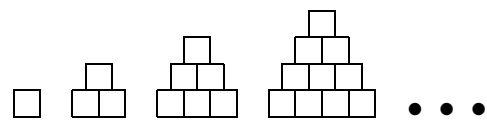


3. If Tuesday is January 5, what day will January 28 be?
4. Using digits 1, 4, 5, 7, 8 write a two digit number closest to 63.
5. What number will come out of the machine if 8 goes into the machine?



6. How many odd numbers are there between 4 and 38 on a number line?

7. How many squares will be in the 7th picture?



8. One hundred eighty tickets were printed for the fall music program. The boys sold 67 and the girls sold 86. The rest of the tickets were sold at the door. How many were sold at the door?

9. $42 + 29 = 71$
 $25 + 16 = b$

 $17 + a = 30$

Find $a + b$.

10. Bobby can trade 5 pieces of gum for two candy bars. How many candy bars can Bobby have if he has 25 pieces of gum?

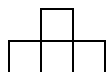
11. Which is worth more?

<u>Bag A</u>	<u>Bag B</u>
3 quarters	2 quarters
5 dimes	6 dimes
2 nickels	3 nickels

12. 14 cars and 9 motorcycles are in the parking lot. How many wheels are there?
13. Class starts at 8:15 in the morning. There is 50 minutes for reading, 40 minutes for math, and 15 minutes for recess. What time is recess over?
14. Find the sum of the missing numbers:

1, 3, 5, 7, ____, ____, ____, 15, 17 ____, ____, 23

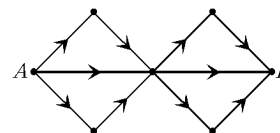
15. How many rectangles are shown?



16. Find the missing number.

number	3 times number
1	3
2	6
3	9
4	<input type="checkbox"/>

17. How many different ways can you get from A to B if you can travel only in an Easterly direction?



18. In the town of COINNY, a pemmy is worth $4¢$, a dimmy worth $12¢$ and a nimmy is worth $8¢$. How much money does Boona have if Boona has 4 pemmies, 6 dimmies, and 9 nimmies?
19. Jack travels to Peoria every 4th day. Sam is there every 5th day. They meet in a restaurant on May 15th. If they keep to their schedules, on what date will they next meet?
20. George wants to cut a log into 6 pieces. It takes 20 minutes to make 2 cuts. How long will it take him to cut the log?

Answer List

- | | | |
|--------------|----------------|-------------|
| 1. blue | 2. 32 | 3. Thursday |
| 4. 58 | 5. 34 | 6. 17 |
| 7. 28 | 8. 27 | 9. 54 |
| 10. 10 | 11. Bag A | 12. 64 |
| 13. 10:00 am | 14. 73 | 15. 8 |
| 16. 12 | 17. 9 | 18. \$1.60 |
| 19. June 4 | 20. 50 minutes | |
-

Catalog List

- | | | |
|---------------|---------------|---------------|
| 1. IEC AB 1 | 2. IEC AB 2 | 3. IEC AB 3 |
| 4. IEC AB 4 | 5. IEC AB 5 | 6. IEC AB 6 |
| 7. IEC AB 7 | 8. IEC AB 8 | 9. IEC AB 9 |
| 10. IEC AB 10 | 11. IEC AB 11 | 12. IEC AB 12 |
| 13. IEC AB 13 | 14. IEC AB 14 | 15. IEC AB 15 |
| 16. IEC AB 16 | 17. IEC AB 17 | 18. IEC AB 18 |
| 19. IEC AB 19 | 20. IEC AB 20 | |