ข้อสอบแข่งขัน

MATH ENG ครั้งที่ 3 / 2560

ระดับชั้นประถมศึกษาปีที่ 5

สอบวันเสาร์ที่ 21 ตุลาคม พ.ศ. 2560

ประกาศผลทาง www.ripn-math.com และ www.facebook.com/ripnmath

วันจันทร์ที่ 13 พฤศจิกายน พ.ศ. 2560

รับรางวัล วันเสาร์ที่ 16 ธันวาคม พ.ศ. 2560

ณ หอประชุมพิมเนศวร เวลา 9.30 – 11.30 น.

ค่าชี้แจง : ทำข้อสอบเวลา 12.30 – 14.30 น.โดยเขียนคำตอบในกระดาษเขียนตอบ ทดในตัวข้อสอบ และนำข้อสอบกลับบ้านได้

1

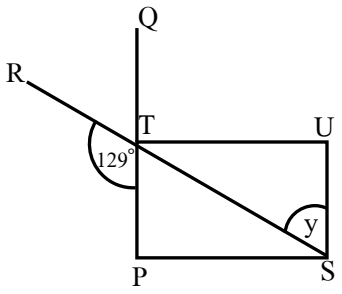
Eight years ago, the age of Jim's father was 6 times that of his age.

How old is Jim now if his father is 50 years old now?

2

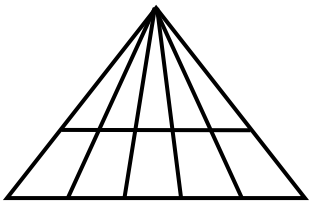
The figure shows a rectangle. PQ and RS are straight lines.

Find $\angle y$.



3

How many triangles are there?



4

3 types of fruit namely, banana, coconut and durian, are in bag.

Nan , Noy and Nun each have their own favourite fruit.

Nan : I don't eat coconut or durian

Noy : I don't eat coconut.

Nun : I don't like basketball..

Can you find each persons favourite fruit?

5

Ken and John had 758 baht altogether.
After Ken had spent 76 baht and John had spent 82 baht,
the amount of money both boys had was the same.
How much money did John have at first?

6

The first box contains 248 beads.
The second box contains 328 beads.
How many beads must you transfer from the first box to the second box so that the number of beads in the second box is 7 times that of the beads in the first box?

7

Ploy uses 155 to form a pentagon.
Each of the 5 corners of the pentagon has a bead.
If there are the same number of beads on each side of the pentagon, how many beads are there on each side of the pentagon?

8

Nick has 246 baht. Jim has 168 baht.

How much money must Nick give to Jim so that the amount of money Jim has is 4 times more than what Nick has?

9

A 100 - seater bus picks up 1 passenger at the 1st bus stop, 3 passenger at the 2nd bus stop, 5 passenger at the 3rd bus stop and so on. When will all the seats in the bus taken up?

10

Pam is 11 years old.

John is twice as old as Pam and Pat is 37 years old.

In how many years'time will the sum of all their age be 160?

11

Kim has 435 baht. Ken has 75 baht.

How much money must Kim give to Ken so that the amount of money Ken has is one fourth of Kim has?

12

Nick and Kim had 750 baht altogether. After Nick had spent 84 baht and Kim had spent 95 baht, the amount of money Nick had was 53 baht more than what Kim had.

How much money did each boy have at first?

13

Nook is 3 years old. Her mother is 39 years old.

In how many years'time will her mother be 4 times as old as Nook?

14

288 oranges are to be divided into 3 boxes.

The first box has 3 times more oranges than the second box.

The number of oranges in the second box is one third of the third box. Find the number of oranges in each box.

15

The first six terms in a sequence are : 0, 1, 2, 3, 6, 11, …

Each term after that is the sum of three previous terms.

What is the 10^{th} term?

16

Kim , James and Dan each add the lengths of two sides of the same triangle correctly. They get 29 cm, 32 cm, and 37 cm, respectively. Find the perimeter of the triangle, in cm.

17

Dang had some sweets. When he ate $\frac{5}{12}$ of its and gave 12 sweets to his sister, he has $\frac{1}{3}$ of the sweets left.

How many sweets did he have at first?

18

There were some boys and girls in a room.

Each boy had 7 pens and each girl had 4 pens.

There were three times as many girls as boys in the room.

The total number of pens was a multiple of 5.

If there were fewer than 25 children, how many pens did the children have altogether?

19

Jim bought 2 similar books and 3 similar pencils for 135 baht.
Sam bought 3 such books and 5 such pencils for 210 baht.
What was the total cost of a book and a pencil?

20

Mike, Nick, Moss, Nin and Kim had average mark of 72 in a mathematics test. Mike, Nick and Moss had an average mark of 60. Nin, Kim and Nick had an average mark of 80.
If Nin and Kim had the same mark.
What was the total mark of Mike and Moss?

21

Jim, Sam and John had some money.
After Jim spent $\frac{1}{3}$ of his money, Sam spent 80 baht of his money and John spent $\frac{1}{2}$ of his money, they had an equal amount of money left. If they had a total of 600 baht in the end, how much money did each of them have at first?

22

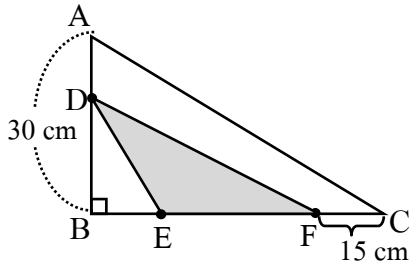
Ploy spent $\frac{1}{5}$ of her money in a shop, gave $\frac{3}{8}$ of the remainder to her brother and saved the rest. If Ploy saved 750 baht, how much money did Ploy have at first?

23

There were 360 total oranges in 3 boxes, A, B and C. 30 oranges were transferred from A to B, 12 oranges were transferred from B to C and $\frac{1}{4}$ of the oranges in C were then transferred to A. There was then an equal number of oranges in each box. How many oranges were there in each box at first?

24

In the figure below, BD is $\frac{3}{5}$ AB. BE is $\frac{1}{4}$ BC and FC is $\frac{3}{8}$ BC. Find the area of the shaded portion?



25

There were some red, yellow and black pencils in a box.

$\frac{6}{11}$ of the pencils were red and 60 were black. The rest were yellow.

If there were 15 more black pencils than yellow pencils,

how many red pencils were there?

26

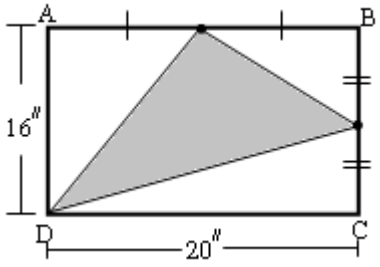
The ratio of number of oranges to mangoes in a basket was 6 : 7.

After $\frac{1}{3}$ of the oranges and $\frac{1}{2}$ of the mangoes were sold, there were 10 more oranges than mangoes in the basket.

How many fruits of each type were there in the basket at first?

27

ABCD is a rectangle, find area of the shaded portions.



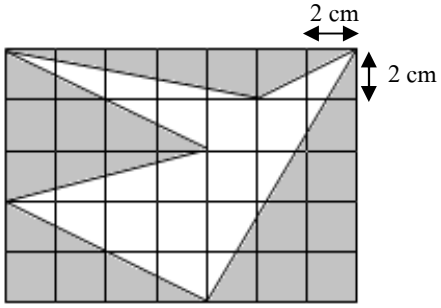
28

Kat and Pat have some beads in the ratio 7 : 5.

If Kat gives Pat 60 beads, Pat will have twice as many beads as Kat. How many beads do they have altogether?

29

Find the area of the unshaded figure.



30

A list contains exactly 5 different counting numbers.

No number in the list is a multiple of ant other in the list.

What is the least possible total of these 5 numbers?