

Maths Week Brainteasers

ANSWERS

Name: _____ Class: _____

Monday

Answer:

Brooke: 548 pages

Carla: 565 pages

Tony: 648 pages

Nadine: 605 pages

Tuesday

Answer: 40

Wednesday

Which garden belongs to which person?

- The orange-flower garden belongs to **Bridget**.
- The red-flower garden belongs to **Travis**.
- The yellow-flower garden belongs to **Jessica**.
- The purple-flower garden belongs to **Stacey**.

Thursday

What was the percentage score for each of the students?

Zamir: 75%

Caleb: 72%

Rosa: 76%

Avi: 74%

Sonya: 72%

Friday

Answer: 6

Dear Parent(s) / Guardian(s),

Maths Week takes place this year from the 15th October 2016 to 23rd October 2016. During Maths Week we take a closer look at math and try to show the children how math is in everything that we do from the moment we get up to the moment we go to sleep e.g. shopping, going on a journey, setting the alarm clock etc. We also try to show the children that math can be great fun and so have planned a number of activities during the week to help the children to engage more with math including Math games and Math trails.

Parent(s) / Guardian(s) can also help by using math in everyday activities. How about asking the children to calculate how much two items cost in the shop? When going on a journey, children could calculate the distance? What shapes can be seen in your home? There are many examples of math in our everyday life.

To get our school community thinking mathematically we are sending home a book of math puzzles for both junior and senior students and their parents. There is one puzzle to be solved each night. We hope that parents and students will have a great time working out these puzzles together. Both booklets will be published on www.dromns.com. If you feel that your child would benefit more from either the Junior or Senior Booklet, please feel free to download them and enter. Alternatively, please request a copy from the office.

So what do you have to do?

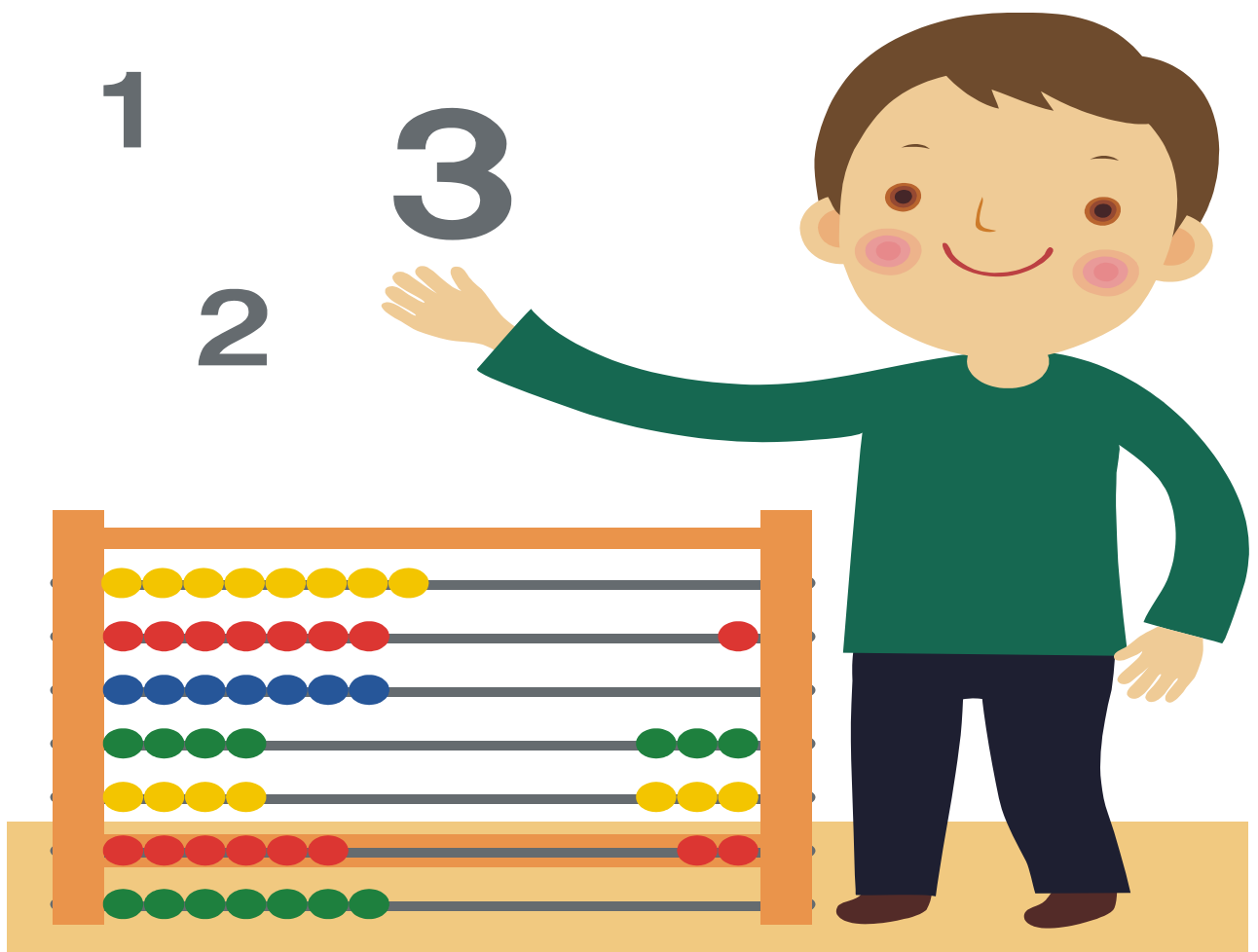
- 1. Each night try to solve the math brainteaser.**
- 2. On Monday, 24th October 2016, return the puzzle book answer sheets to the school.**
- 3. Each child who gets all 5 questions right will be entered into a draw for a prize. The draw will take place on 28th October 2016 at 11a.m. and the winners from each classroom will be announced by text .**

DROM NS

MATHS WEEK

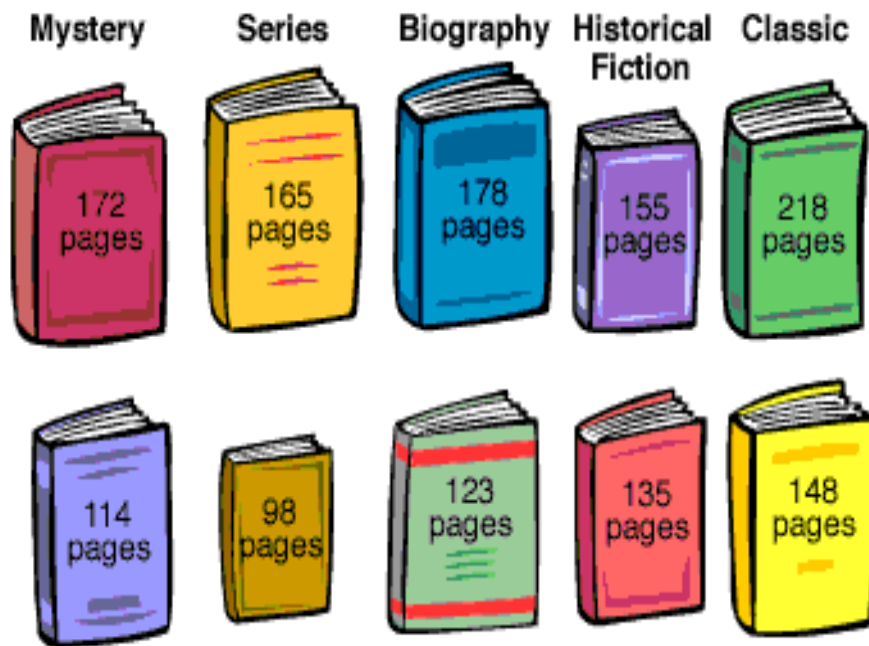
SENIOR BRAINTEASERS

15th – 23rd October 2016



MONDAY

For their autumn book reports, Brooke, Carla, Tony, and Nadine each read 4 of the books shown above. Their teacher told them that each book had to be from a different category. Nobody read the same combination of books



- All four students read a mystery, but Brooke and Tony both read the longer mystery.
- Everyone except Tony read a book from a series. Nadine was the only one to read the longer of the two choices.
- Tony and Carla read the longest book.
- Nadine read the biography and the classic that no one else read.
- Carla did not read a biography.
- Brooke read the longer historical fiction but the shorter biography.
- Tony and Carla read the shorter historical-fiction book.

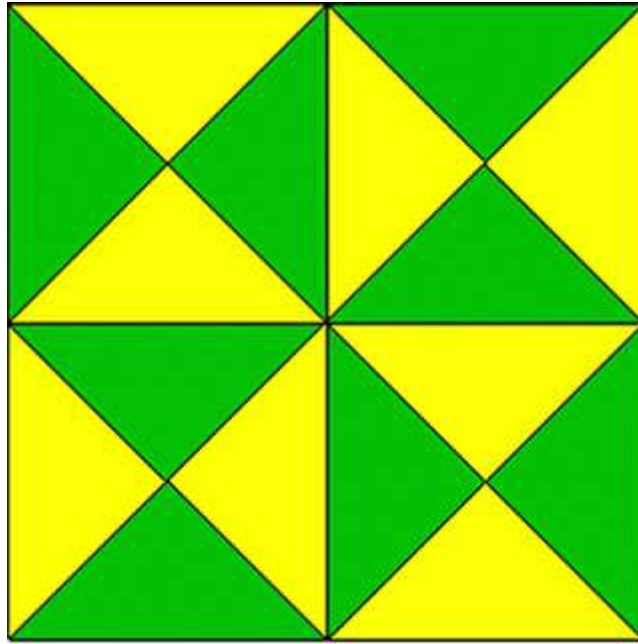
How many pages did each person read?

Answer:

Brooke _____ Tony _____

Carla _____ Nadine _____

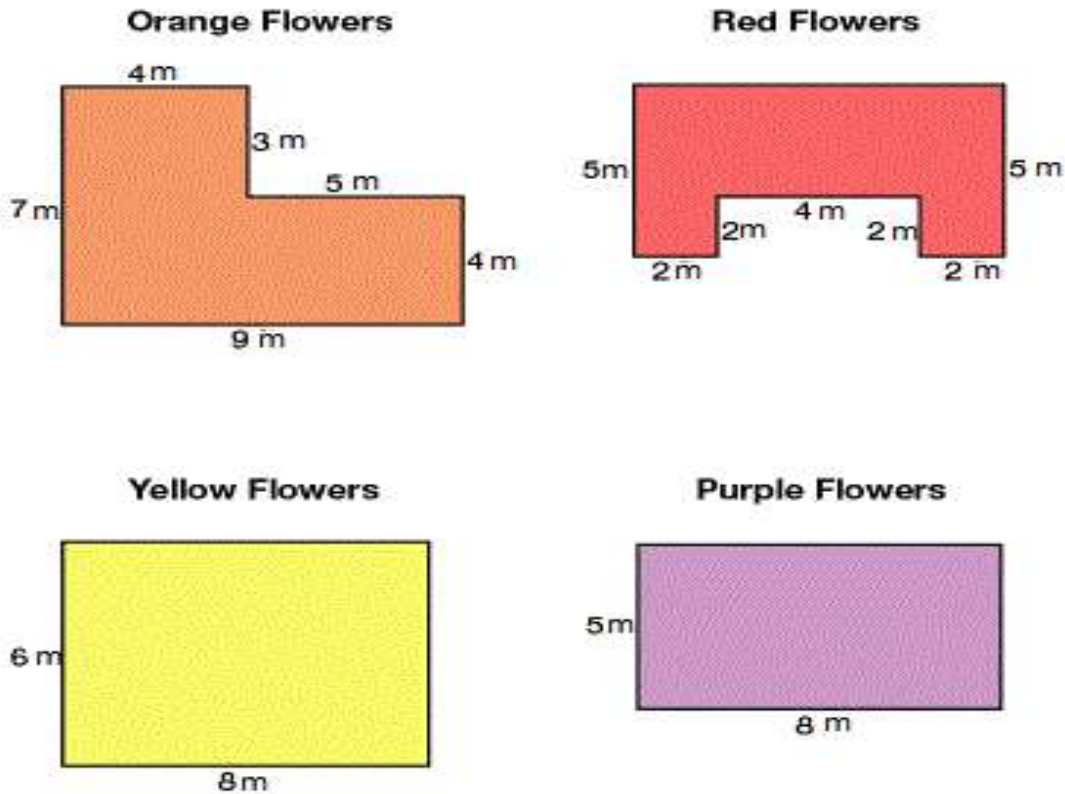
TUESDAY



Solve the counting puzzle by finding the number of triangles in the figure below

Answer: _____

WEDNESDAY



Bridget, Jessica, Stacey, and Travis are planting flowers in their gardens. Each person has chosen the shape of his or her garden and has chosen a single flower colour for the garden.

- The area of Bridget's and Jessica's gardens is the same, but the perimeter of Bridget's garden is greater than that of Jessica's.
- The actual number of metres in the perimeter of Bridget's garden is equal to the number of square metres in Travis's garden.
- The perimeter of Travis's garden is greater than the perimeter of Stacey's garden.
- The area of Stacey's garden is less than the area of Jessica's garden.

Which garden belongs to which person?

Bridget _____ Jessica _____

Stacey _____ Travis _____

THURSDAY

Avi, Caleb, Rosa, Sonya, and Zamir compared recent test scores and learned that some of their quizzes differed in the number of questions.

- Zamir answered $\frac{3}{4}$ of the 40 questions on his test correctly.
- Caleb answered 12 fewer questions correctly than Zamir, but he had only 25 questions on his test.
- Caleb and Rosa had the same number of test questions, but Rosa solved 1 more question correctly than Caleb.
- Avi had 7 more correct responses than Zamir, but had 10 more questions to answer on her test than he had.
- Sonya answered 3 times as many questions correctly as Caleb, but had 75 questions on her test.

What was the percentage score for each of the students?

Zamir _____ %

Caleb _____ %

Rosa _____ %

Avi _____ %

Sonya _____ %

FRIDAY



= 10



= 2



= 0



= ?

What does the fourth line equal?

Answer _____



Hint and Tips

MONDAY

Make a chart.

WEDNESDAY

The perimeter is the distance around a figure.

Perimeter of a rectangle: $P = 2 \text{ Length} + 2 \text{ width}$

Area is the number of square units in a figure.

Area of a rectangle: $A = \text{Length} \times \text{width}$

THURSDAY

Make a chart.

Name	Number of questions in all	Number answered correctly	Fraction	Fraction with 100 in the denominator	Percentage

FRIDAY

Hint: This puzzle is called the Petals of a Rose.

