Mathematics Examples

GRADE 1

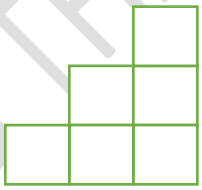
1. Find the Value of 7 + 11 + 13 + 9.

2. By observing the pattern, what is the number in the space provided?

   13, 11, __, 7, 5

3. Alice is 6 years old. She is 26 years younger than her father. How old is her father?

4. How many squares are there in the figure below?



5. What is the largest 3-digit number formed by digits 2, 3, 5 and 8? (Each digit can be used only once.)

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GRADE 2

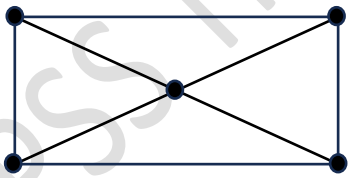
1. Find the value of $14 - 5 - 6 - 7 + 8$.

2. Find the value of $2 \times 3 + 3 \times 4 + 4 \times 5$.

3. 25 children form a column. Evan is the 9^{th} counting from front. What is his position when counting from behind?

4. Mike has 25 sweets and Alice has 13 sweets. How many sweets does Mike give to Alice to make them have the same numbers of sweet?

5. How many line segments are there in the figure below?



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GRADE 3

1. Find the value of 43 × 19 - 38 × 14 + 19 + 29.

2. 40 ÷ X = Y and Y × 6 = 30. Find X.

3. Alan has to prepare the tables for tonight's party. Each table can be sat at most by 7 people. If there are 235 want to join the party, what is the least numbers of table which Alan should prepare for?

4. Define the operation symbol $a \Delta b = (a - b) \times a$, find the value of $34 \Delta 14$.

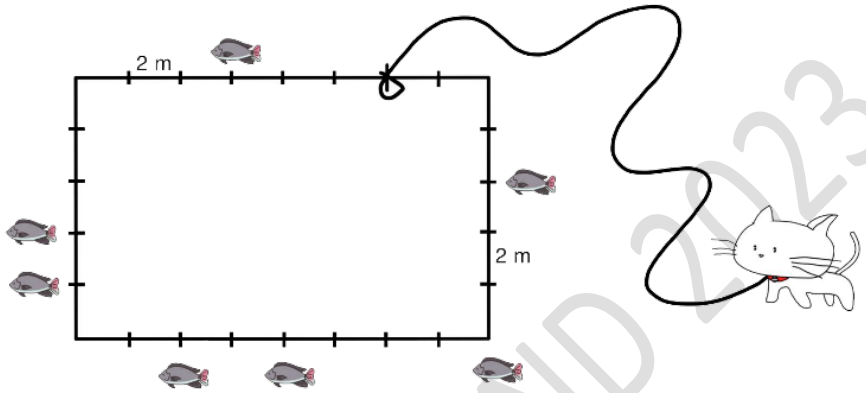
5. Two numbers have a sum of 117 and a difference of 37. What is the value of the larger number?

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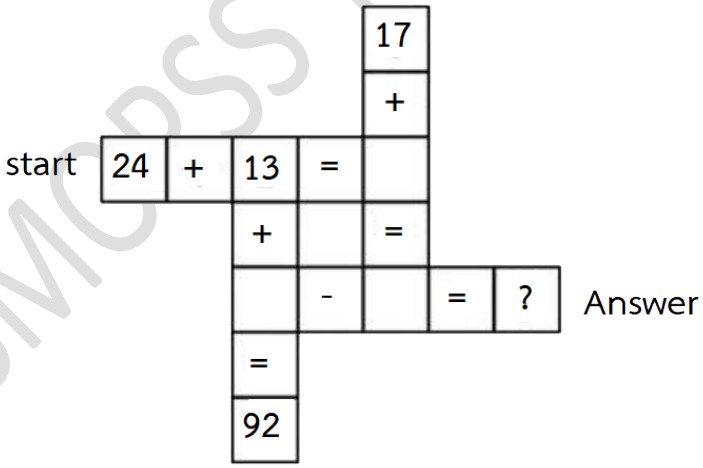
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GRADE 4

1. John used a 21 – meter – long rope to tie his cat to a post on the fence and put the fish on pillars as shown in figure below. Each pillar is 2 meters from adjacent pillars. How many fish does his cat catch at most?



2. What is the number that comes in place of the question mark, if all calculations are solved correctly?



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3. Kevin uses 8 pins to stick 3 sheets of paper on the board.

   Kevin wants to stick 9 sheets of paper on the board in the same way.

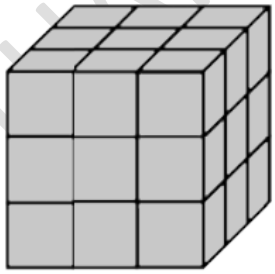
   How many pins does he need for that?



4. Peter took 27 small cubes, arranged them into a larger cube,

   and painted all sides.(included below)

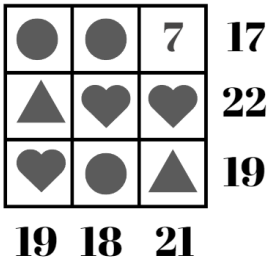
   Find the number of small cubes that are painted on only two sides.



5. Let each geometric figure represent a different number.

   The sum of the numbers in each row and each digit is displayed on the right hand side and below each row.

   Which digit does the triangle stand for?



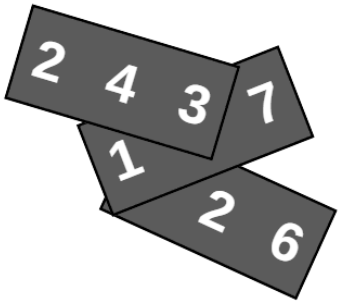
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GRADE 5

1. On each of the three separate pieces of paper, there is a three-digit number. The sum of the three numbers is 726.

   What is the sum of the two hidden digits?



2. Give 5 ⊚ 3 = 13

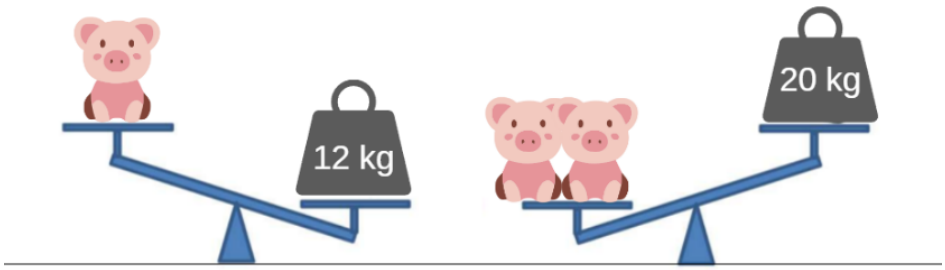
   6 ⊚ 4 = 16

   7 ⊚ 9 = 23

   3 ⊚ 1 = 7

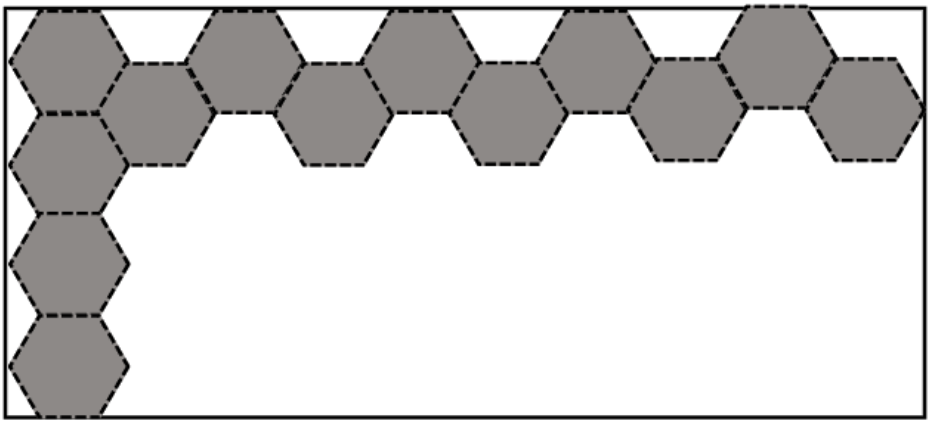
   Find the value of (8 ⊚ 5) +(9 ⊚ 3).

3. All pigs are equally heavy.



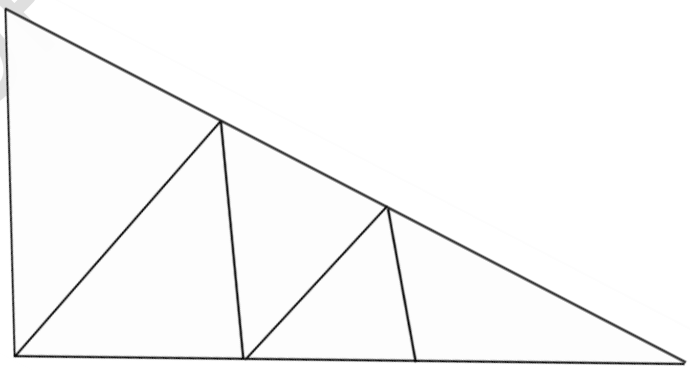
   How much does a pig weigh?

4. Joey used hexagonal tiles to cover the floor of his rectangular house, as shown in figure below.



If Joey wants to buy the original hexagonal tile to cover the floor of the house to fill the space. At least how many more tiles does Joey have to buy? (can cut tiles into pieces)

5. In the figure below, how many different triangles are there?

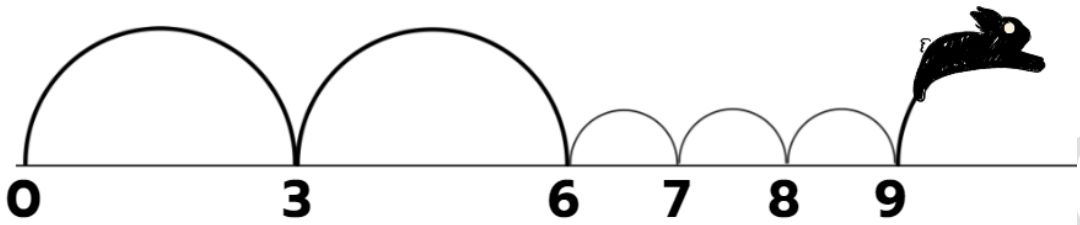


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GRADE 6

1. A Rabbit jumps on the number line. If it starts at 0, then always starts with two big jumps and then three small jumps (see diagram).



It keeps repeating this in the same way, over and over again.

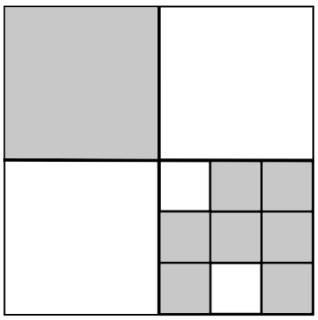
If this rabbit jumped a total of 82 times, what number would it stand on?

2. The large square is divided into smaller squares of different sizes as shown in the figure below.

The smaller squares are shaded in gray.

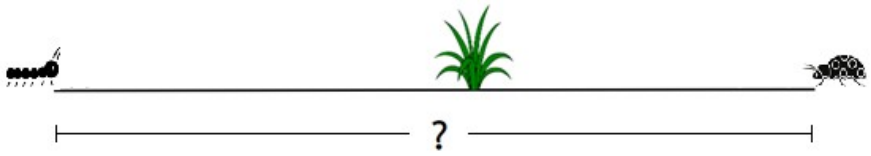
If the shaded part has an area of 112 cm^2.

Find the area of the large square.



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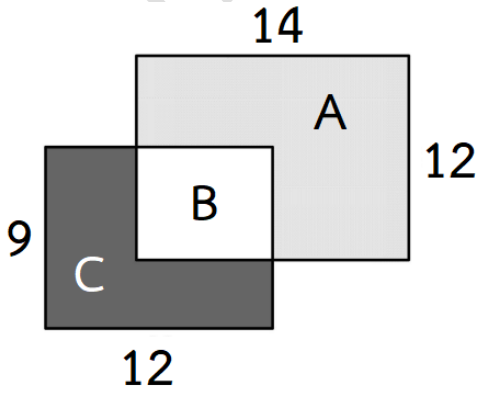
3. A ladybug walks at a speed of 80 meters / hour. It takes 18 minutes to reach the grass as shown in the picture.



If the worm walks 15 meters / hour slower than the ladybug and takes 24 minutes to reach the grass. I want to know before walking.

What is the distance between a worm and a ladybug at the beginning?

4. Two rectangles are partially overlapping, as shown in the figure below. If the section C has an area of 66 square units, what is the area of the section A?



5. How many numbers from 1 to 150 are divisible by 5 or 7?

##

Answer

G.1

1. 040 2. 009 3. 032 4. 007 5. 853

G.2

1. 004 2. 038 3. 017 4. 006 5. 010

G.3

1. 333 2. 008 3. 034 4. 680 5. 077

G.4

1. 005 2. 025 3. 020 4. 012 5. 006

G.5

1. 008 2. 042 3. 011 4. 042 5. 009

G.6

1. 150 2. 252 3. 050 4. 126 5. 047

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