

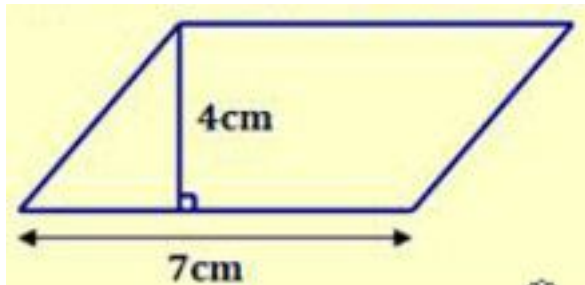
Đề thi Violympic Toán Tiếng Anh lớp 5 vòng 1 năm 2015 - 2016

Question 1: Choose the most suitable answer in 4 available answers.

Question 1.1: The value of $85 \times 46 + 54 \times 85$ is

- A. 485 B. 5464 C. 8446 D. 8500

Question 1.2: The area of the parallelogram below is cm^2 .



- A. 7 B. 8 C. 28 D. 14

Question 1.3: Add: $\frac{2}{7} + \frac{3}{7} = \dots\dots\dots$

- A. $\frac{5}{7}$ B. $\frac{4}{7}$ C. $\frac{6}{7}$ D. $\frac{8}{7}$

Question 1.4: Convert: $2\text{km}^2 = \dots\dots\dots\text{m}^2$.

- A. 200 000 B. 20 000 C. 2 000 D. 2 000 000

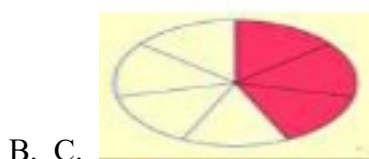
Question 5: Find x such that: $x + \frac{3}{5} = \frac{5}{2}$

- A. $\frac{2}{5}$ B. $\frac{19}{10}$ C. $\frac{8}{5}$ D. $\frac{8}{10}$

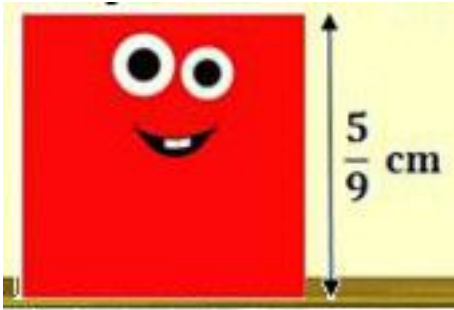
Question 1.6: The sum of two numbers is 79 and their difference is 13. What is the smaller number?

- A. 23 B. 33 C. 46 D. 53

Question 1.7: Which image matches the following fraction? $\frac{2}{5}$



Question 1.8: The perimeter of the square below is cm.



- A. $\frac{25}{81}$ B. $\frac{41}{9}$ C. $\frac{9}{9}$ D. $\frac{20}{9}$

Question 1.9: How many numbers between 65 and 121 are divisible by 8?

- A. 48 B. 6 C. 7 D. 8

Question 1.10: $\frac{2}{5}$ of the trees in a garden is red apple trees. Others are green apple trees. There are 60 green apple trees. How many apple trees are there in the garden altogether?

- A. 120 B. 150 C. 100 D. 130

Question 2: Let's reach the intellectual peak by answering the questions.

Question 2.1: In 235468, the value of the digit in the hundreds place is:

Question 2.2: $\frac{1}{4}$ kg =g.

Question 2.3: The ratio of two numbers is 3 : 5 and their sum is 104. Find their difference.

Question 2.4: The area of a square of side 5cm is cm^2 .

Question 2.5: The greatest 5 - digit number that divisible by 18 is

Question 2.6: Calculate: $2 + 4 + 6 + \dots + 96 = \dots$

Question 2.7: Look at this series: 62; 62; 50; 50; 38; 38; What number should come next?

Question 2.8: What is $\frac{7}{12}$ of 144?

Question 2.9: Of the 28 goats on Jack's farm, $\frac{3}{7}$ are white. How many white goats are on the farm?

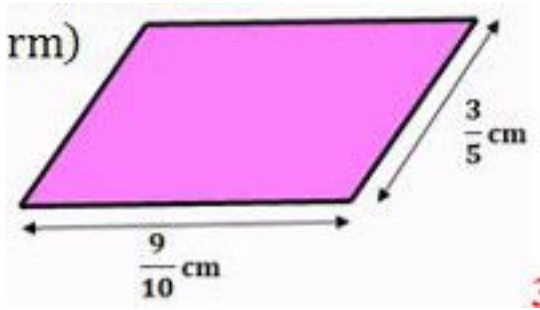
Question 2.10: Calculate: $3456 \times 4 = \dots$

Question 2.11: Convert: $400000\text{cm}^2 = \dots\text{m}^2$.

Question 2.12: There are forty pieces of fruits on the table. Twenty four of them are oranges, others are apples. How many pieces of fruits are apples?

Question 2.13: $\dots/9 = 48/108$. The missing number is

Question 2.14: The perimeter of the parallelogram below is cm.



Write your answer in the simplest form.

Question 2.15: There are 35 men and a some of women in a meeting room. The ratio of the number of women to the number of men is 7 : 5. How many women are there in the meeting room?

Question 2.16: The sum of odd numbers from 12 to 42 is

Question 2.17: If $37a54b$ is divisible by 2; 3; 5 and 9 then $a + b = \dots$

Question 2.18: For every 8 hours of work, John earns \$136. If John works 30 hours, how much will he earn?

Question 2.19: The sum of two numbers is the smallest 3-digit number and their difference is the smallest 2-digit number?

Question 2.20:

$$\frac{484848}{323232} = \frac{6 \times \dots}{72}$$

The missing number is

ĐÁP ÁN

Question 1: Choose the most suitable answer in 4 available answers.

Question 1.1: D

Question 1.5: B

Question 1.2: C

Question 1.6: B

Question 1.3: A

Question 1.7: C

Question 1.4: D

Question 1.8: D

Question 1.9: C

Question 1.10: C

Question 2: Let's reach the intellectual peak by answering the questions.

Question 2.1: 400

Question 2.8: 84

Question 2.15: 49

Question 2.2: 250

Question 2.9: 12

Question 2.16: 405

Question 2.3: 26

Question 2.10: 13824

Question 2.17: 8

Question 2.4: 25

Question 2.11: 40

Question 2.18: 510

Question 2.5: 99990

Question 2.12: 16

Question 2.19: 55

Question 2.6: 2352

Question 2.13: 4

Question 2.20: 18

Question 2.7: 26

Question 2.14: 3

Đề thi Violympic Toán Tiếng Anh lớp 5 vòng 10 năm 2015 - 2016

Exam number 1: Fill in the blank with the suitable number

Question 1: 0.6 hour = minutes.

Question 2: 12 hours 24 minutes x 2 = hours.

(Write your answer by decimal in the simplest form)

Question 3: 51 hours = days.

(Write your answer by decimal in the simplest form)

Question 4: 5 minutes 27 seconds : 3 = seconds.

Question 5: How fast is Anna going if she runs 8 miles in the park in only 2 hours?

Question 6: How fast is Jack going if the train he is on travels 20 miles in just 6 minutes?

Question 7: How far will Mary travel if she rides her motorbike for 24 minutes at a speed of 75 miles/hour?

Question 8: Yesterday Peter roller skated for 2.5 hours at a speed of 6 km/h. How many kilometers did he skate?

Question 9: The area of a rectangle ABCD is 56cm^2 . Given a random point E inside of ABCD. Find the total area of triangles AED and BEC.

Question 10: The distance between 2 trees is 300 meters. It will take a bird 30 seconds to fly between these 2 trees. How fast is the bird in kilometer per hour?

Exam number 2: Cốc vàng tài ba

Question 1: Which of following is correct?

- a. $100 + 64 = 104 + 60$
- b. $100 + 64 = 140 + 6$
- c. $100 + 64 = 106 + 40$
- d. $100 + 64 = 10 + 64$

Question 2: Write $23\frac{5}{100}$ as a decimal.

The result is

- a. 23,05
- b. 23,0005
- c. 23,005
- d. 235

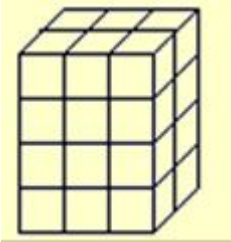
Question 3: Find the value of x such that $x + \frac{3}{7} = \frac{26}{21}$

- a. $\frac{7}{21}$
- b. $\frac{23}{21}$
- c. $\frac{23}{14}$
- d. $\frac{17}{21}$

Question 4: Calculate: $23,61 \times 4,23 = \dots\dots\dots$

- a. 9987,03
- b. 92,1403
- c. 99,8703
- d. 9214,03

Question 5: This shape is made of several small cubes. Find the surface area of the shape, if each side of small cube is 2cm long.

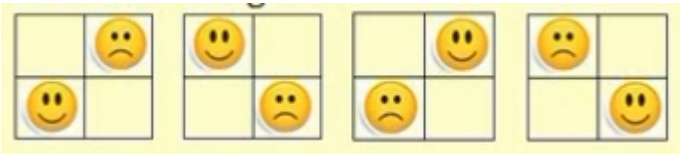


- a. 96cm^2 b. 104cm^2 c. 208cm^2
 d. 144cm^2

Question 6: In a school library, there are 101000 English books, 92683 Math books and 216094 books of other subjects. How many books are there in the library?

- a. 409777 books
 b. 308777 books
 c. 193683 books
 d. 409667 books

Question 7: Find the next figure



- a. b. c. d.

Question 8: What is the difference between the sum of the first 2016 even natural numbers and the first 2016 odd natural numbers?

- a. 4031 b. 2016 c. 4030 d. 2015

Question 9: Jack buys sofas from a wholesale market for \$3750, and then he sells all of them at a loss of 4%. How much money did he sell each sofa for?

- a. \$3900 b. \$156 c. \$3600 d. \$144

Question 10: A square picture was cut along the lines into 9 pieces. Which of the following shapes below was missing piece?



- a. b. c. d.

Exam number 3: Sắp xếp các giá trị theo thứ tự tăng dần

$\frac{14}{25}$ (1)	52% of 1 (2)
$\frac{1}{4}$ (3)	$0.53 - 0.07$ (4)
10% of 10% of 60 (5)	$\frac{2}{5}$ (6)
$0.26 + 0.12$ (7)	$0.2 \times 0.2 \times 20$ (8)
70% of 0.5 (9)	0.3 (10)

Đáp án

Exam number 1: Fill in the blank with the suitable number

Question 1: 36

Question 2: 24,8

Question 3: 2,125

Question 4: 109

Question 5: 4

Question 6: 200

Question 7: 30

Question 8: 15

Question 9: 28

Question 10: 36

Exam number 2: Cóc vàng tài ba

Question 1: a

Question 2: a

Question 3: d

Question 4: c

Question 5: c

Question 6: a

Question 7: a

Question 8: b

Question 9: d

Question 10: c

Exam number 3: Sắp xếp các giá trị theo thứ tự tăng dần

$(3) < (10) < (9) < (7) < (6) < (4) < (2) < (1) < (5) < (8)$

Đề thi Violympic Toán Tiếng Anh lớp 5 vòng 9 năm 2015 - 2016

Exam number 1: Vượt chướng ngại vật

Question 1: $1,83 + \dots = 2$

Question 2: The volume of the cube below is cm^3 .



Question 3: After running 20% of a race, Bob had run 25m. How long was the race, in metres?

Question 4: Alice are going to buy sugar for her cooking class. She needs to have $\frac{1}{6}$ kg of sugar for every student in her class. There are 18 students in her class. How many kilograms of sugar should Alice buy?

Question 5: Alice's mathematics exam had 30 algebra questions and 50 geometry questions, each worth 1 mark. She got 70% of the algebra questions correct, and 60% of her questions correct. How many geometry questions did she answer correctly?

Exam number 2: Fill in the blank with the suitable number

Question 1: Bob roller skates with a constant speed of 14 miles per hour. How far can he travel in $\frac{1}{2}$ hour?

Question 2: Emily rides her bike with a constant speed of 12km/h. How far can she travel in 3 hours?

Question 3: Jack rides his horse with a constant speed of 12 miles per hour. How far can he travel in $1\frac{1}{2}$ hours?

Question 4: An airplane flies with a constant speed of 810 miles per hour. How far can it travel in $4\frac{1}{2}$ hours?

Question 5: John drove from Town A to Town B in 5 hours. His average speed for the first 3,5 hours was 64km/h. His average speed for the last 1,5 hours was 60km/h. What was the total distance he traveled?

Question 6: A car traveled at 50km/h for 2 hours and at 60km/h for 3 hours. What is the car's average speed?

Question 7: The distance between John's home and the park is 3000m. John walked from his home to the park at a speed of 100m per minute and then walked back home at a speed of 150m per minute. What is the John's average speed in meter per minute?

Question 8: Bob drove from City P to City Q. He traveled the first 36km at an average speed of 54km/h. He traveled the remaining 96km at a average speed of 72km/h. Find his average speed for the whole trip.

Question 9: Peter and Jacob were running. Both of them run with their constant speeds. They started at the same time and the same place. When Jacob reached the finishing line, Peter had only run $\frac{5}{9}$ of what Jacob had run. Jacob's speed is 75m/min (metre per minute) faster than Peter. What was Peter's speed in m/min?

Question 10: A train crosses a tree in 10 second and a bridge 225m long in 25 second. Find the length of the train.

Exam number 3: Cốc vàng tài ba

Question 1: The number of centimetres in 2,5 metres is

- a. 0,025 b. 0,25 c. 25 d. 250

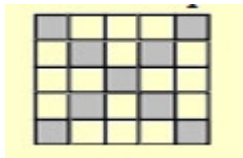
Question 2: You walk 2 miles with your dog in only 40 minutes. Your average speed is

- a. 0,2 mile in per minute
b. 0,5 mile in per minute
c. 0,02 mile in per minute
d. 0,05 mile in per minute

Question 3: Susan wants to divide 35,5 kg sugar in small bags. If each bag holds 0,5kg, how many bags are needed?

- a. 70 b. 71 c. 36 d. 35

Question 4: In the diagram, the percentage of small squares that are shaded is



- a. 36% b. 9% c. 24% d. 25%

Question 5: If the numbers: $\frac{2}{5}$; 41% and 0,401 are arranged from largest to smallest, the correct order is

- a. $\frac{2}{5}$; 0,401; 41%
b. 0,401; $\frac{2}{5}$; 41%
c. 41%; 0,401; $\frac{2}{5}$
d. 41%; $\frac{2}{5}$; 0,401

Question 6: Charlie and Lily go on a 24 km run. They both usually run at 9 km/h. If Charlie runs at $\frac{2}{3}$ his usual running speed, and Lily runs at $\frac{4}{3}$ times her usual speed, how many more hours does it take Charlie to complete the run than it takes Lily to

complete the run?

- a. 6 b. 4 c. 2 d. 3

Question 7: A box contains 21 disks, each coloured red, blue and green. There are twice as many green disks as red disks, and half as many blue as red. How many disks are red?

- a. 6 b. 12 c. 9 d. 3

Question 8: The results of a survey of the hair colour of 500 people are shown in this circle graph. How many people have blonde hair?



- a. 300 b. 150 c. 250 d. 200

Question 9:

The pattern of figures $\triangle \bullet \square \blacktriangle \circ$ is repeated in the sequence:
 $\triangle, \bullet, \square, \blacktriangle, \circ, \triangle, \bullet, \square, \blacktriangle, \circ, \dots$
The 2016th figure in the sequence is ...

- a. b. c. d.

Question 10: Each face of a cube is painted with exactly one colour. What is the smallest number of colours needed to paint a cube so that no two faces that share an edge are the same colour?

- a. 6 b. 3 c. 4 d. 5

Đáp án

Exam number 1: Vượt chướng ngại vật

Question 1: 0,17

Question 2: 3375

Question 3: 125

Question 4: 3

Question 5: 27

Exam number 2: Fill in the blank with the suitable number

Question 1: 7
Question 2: 36
Question 3: 18
Question 4: 3645
Question 5: 314
Question 6: 56
Question 7: 125
Question 8: 66
Question 9: 125
Question 10: 90

Exam number : Cóc vàng tài ba

Question 1: d
Question 2: d
Question 3: b
Question 4: a
Question 5: c
Question 6: c
Question 7: d
Question 8: b
Question 9: a
Question 10: c

Đề thi Violympic Toán Tiếng Anh lớp 5 vòng 9 năm 2014 - 2015

Exam number 1: Choose the most suitable answer in 4 available answers. (Cốc vàng tài ba)

Question 1: Choose the calculation that has the greatest result.

- a. $125,7 : 3 + 14,3$
- b. $365,5 : 5 - 17,8$
- c. $59,8 : 2 + 26,13$
- d. $196,4 : 4 - 7,07$

Question 2: Peter counts his heart rate. He counts 8 beats per 6 seconds on average. How many beats per minute does Peter count?

- a. 75
- b. 140
- c. 60
- d. 80

Question 3: Which fraction is equal to 17,5%?

- a. $35/20$
- b. $7/40$
- c. $35/50$
- d. $175/100$

Question 4: Mia wants to buy apple. Which is the best buy?

- a. 7kg of apples for \$30,38
- b. 5kg of apples for \$21,5
- c. 6kg of apples for \$26,1
- d. 4kg of apples for \$17,32

Question 5: The product: $20 \times 21 \times 22 \times \dots \times 40$ has digit 0.

- a. 4
- b. 6
- c. 5
- d. 3

Question 6: Which shape is colored more than 50% in green?



Question 7: If number A is increased by 60% then it will equal number B. How much

percentage will B be decreased by to equal A?

- a. 40% b. 62,5% c. 37,5% d. 60%

Question 8: Find the smallest number that is 7 times the sum of its digits?

- a. 28 b. 21 c. 14 d. 35

Question 9: Calculate: $\frac{1}{6} + \frac{1}{12} + \frac{1}{24} + \dots + \frac{1}{768} = \dots$ Choose the correct answer:

- a. 767/768 b. 711/768 c. 255/256 d. 85/256

Question 10: How many fractions equal $\frac{1}{5}$ and have denominators of 2 - digit numbers?

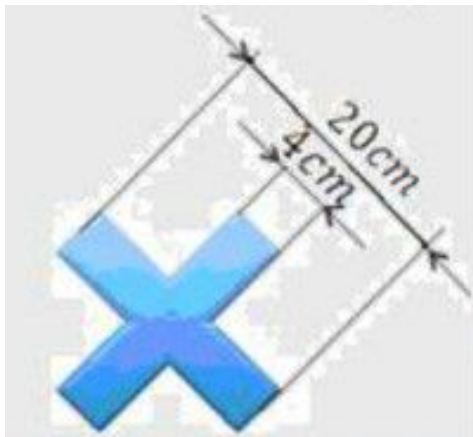
- a. 16 b. 18 c. 22 d. 20

Exam number 2: Your car has to pass 5 obstacles to finish. In order to overcome each obstacle, you have to answer correctly one of three problems in that obstacle. (Vượt chướng ngại vật)

Question 1: If $\frac{144}{17} \times \frac{34}{12} < n < \frac{169}{34} : \frac{13}{68}$ and n is a natural number then n =

Question 2:

The perimeter of the shape is cm.



Question 3: Find X if $X \times 8,6 - 5,2 \times X - 11,06 = 5,94$

Question 4: Calculate: $5,5 \times (3,5 - 1,5) + 1,5 = \dots\dots\dots$

Question 5:

Calculate: $\frac{1}{5} + \frac{7}{11} + \frac{5}{13} + 4 \times \left(\frac{1}{5} + \frac{1}{11}\right) + \frac{21}{13} = \dots$

Exam number 3: Find the blank with the suitable number (Note: write decimal number with the comma" between number part and fraction part. Ex: 0,5)

Question 1: $5,136\text{m}^3 = \dots\dots\dots \text{cm}^3$.

Đáp án của bạn

Question 2: $47/250 \text{ dm}^3 = \dots\dots\dots \text{cm}^3$.

Question 3: The perimeter of a circle is $15,7\text{dm}$. Its area is $\dots\dots \text{cm}^2$.

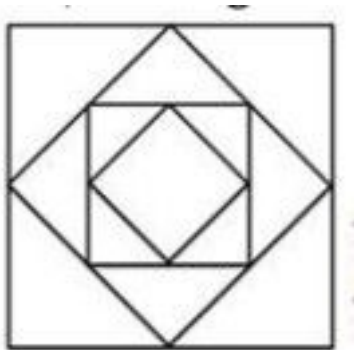
Question 4: Jane bought a couch. A couch costs 950 dollars. She received a 30% discount. How much of a discount did she get?

Question 5: The ratio of the number of girls to the number of boys in a classroom is $5 : 4$. When 10 girls left the classroom, the ratio of the number of boys to the number of girls became $4 : 3$. How many students were in the classroom at first?

Question 6: The area of a rectangle is 50m^2 . If its length is increased by 10% and its width is decreased by 20% then the area of new rectangle is $\dots\dots\dots\text{m}^2$.

Question 7: An aquarium is 8dm deep, 12dm long and $0,3\text{m}$ wide. What is the volume of the aquarium in cubic centimeter?

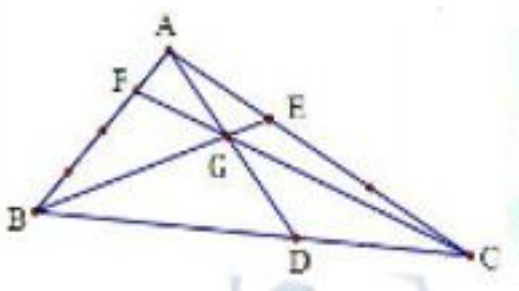
Question 8:



The sum of all square's area in the following figure is 375cm^2 . The area of the biggest square is $\dots\dots\dots \text{dm}^2$.

Question 9: At a party 60% of the boys are dancing with 80% of the girls. How many people are dancing if there are 35 people? (A pair cludes only one boy and one girl)

Question 10:



Look at the following figure. $AF/AB = 1/4$; $AE/AC = 1/3$. If the area of triangle GBD is 270m^2 then the area of the triangle GCD is $\dots\dots\dots \text{m}^2$.

Đáp án

Exam number 1: Choose the most suitable answer in 4 available answers. (Cóc vàng tài ba)

Question 1: a

Question 2: d

Question 3: b

Question 4: b

Question 5: b

Question 6: d

Question 7: c

Question 8: b

Question 9: d

Question 10: b

Exam number 2: Your car has to pass 5 obstacles to finish. In order to overcome each obstacle, you have to answer correctly one of three problems in that obstacle. (Vượt chướng ngại vật)

Question 1: 25

Question 2: 80

Question 3: 5

Question 4: 12,5

Question 5: 4

Exam number 3: Find the blank with the suitable number (Note: write decimal number with the comma" between number part and fraction part. Ex: 0,5)

Question 1: 5136000

Question 2: 188

Question 3: 1962,5

Question 4: 285

Question 5: 45

Question 6: 44

Question 7: 28800

Question 8: 2

Question 9: 24

Question 10: 180

Đề thi Violympic Toán Tiếng Anh lớp 5 vòng 8 năm 2015 - 2016

Exam number 1: Đi tìm kho báu

Question 1: There are 40 students in Mrs. Brown's class. 25% of her students received a B on the test. How many students received a B?

- a. 10 b. 12 c. 18 d. 20

Question 2: What is the product of 3.05 and 2.8?

- a. 8.54 b. 8.056 c. 8.56 d. 8.054

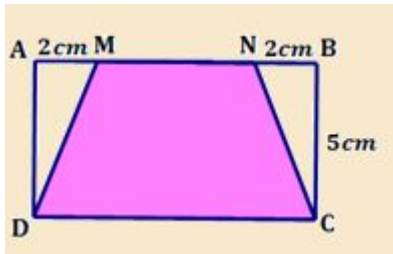
Question 3: A clothing shop is having a 40% off sale. How much would Jane have to pay for a \$30 sweater with a 40% discount?

- a. \$18 b. \$20 c. \$50 d. \$13

Question 4: If a pen costs \$1.75 and an eraser costs \$0.85, which of the following is the cost of 10 erasers and 5 pens?

- a. \$21.75 b. \$26 c. \$18.75 d. \$17.25

Question 5: If the area of the rectangle ABCD is 60cm^2 then the area of the trapezoid MNCD is cm^2 .



- a. 48 b. 50 c. 45 d. 54

Exam number 2: Tìm cặp bằng nhau

25% of one hour (1)	30% of one hour (2)	5% of 20 (3)	$\frac{1}{5}$ of one hour + $\frac{1}{20}$ of two hours (4)
$\frac{1}{4}$ of 12 minutes (5)	$\frac{1}{8}$ of two hours (6)	8% of 50 (7)	5% of 40 (8)
20% of 15% of the smallest 4 – digit number (9)	5% of 80 (10)	$\frac{1}{3}$ of one hour (11)	4% of 25 (12)
5% of one hour (13)	4% of 50 (14)	8% of 100 (15)	25% of the smallest 3 – digit number (16)
32% of 25 (17)	5% of 50% of the smallest 4 – digit number (18)	40% of 50 minutes (19)	50% of 6% of 1000 (20)

Exam number 3: Fill in the blank with the suitable number

Question 1 The length of each edge of a cube is 3 cm. The surface area of the cube, in cm^2 , is

Question 2: At the beginning of the summer, Bob was 140 cm tall. At the end of the summer, he measured his height again and discovered that it had increased by 5%. Measured in cm, what was his height at the end of summer?

Question 3: The number of centimetres in 7.05 metres is

Question 4: Bella scores on six of her eight pictures. The percentage of pictures that she does not score on is%.

Question 5: A bag contains green marbles and red marbles only. If the ratio of the number of green marbles to the number of red marbles is 1:4 then% of marbles are green.

Question 6: How many even numbers between 1 and 100 are divisible by 5?

Question 7: Alice is going to the store. One third of the way to the store, she stops to talk with Kelly. She then continues for 6 km and reaches the store. How many kilometres does she travel?

Question 8: How many three-digit numbers are exactly 19 more than a two-digit number?

Question 9: In the 3×3 table shown, the numbers 2, 4 and 6 are placed so that each number occurs only once in each row and only once in each column. The value of $M + N$ is

		4
2	M	
		N

Question 10: How many different 3-digit whole numbers can be formed using the digits 4, 5, 0 and 8, assuming that no digit can be repeated in a number?

Đáp án

Exam number 1: Đi tìm kho báu

Question 1: a

Question 2: a

Question 3: a

Question 4: d

Question 5: b

Exam number 2: Tìm cặp bằng nhau

(1) = (6); (2) = (4); (3) = (12); (5) = (13); (7) = (10); (8) = (14); (9) = (20); (11) = (19); (15) = (17); (16) = (18)

Exam number 3: Fill in the blank with the suitable number

Question 1: 54

Chiều dài một cạnh của một khối lập phương là 3cm.

Diện tích bề mặt của khối lập phương là $3 \times 3 \times 6 = 54$ (cm²)

Question 2: 147

Question 3: 705

Question 4: 25

Question 5: 20

Question 6: 9

Question 7: 9

Question 8: 19

Có bao nhiêu số có 3 chữ số mà lớn hơn một số có 2 chữ số 19 đơn vị?

Các số có 3 chữ số mà lớn hơn một số có 2 chữ số 19 đơn vị là: 81; 82; 83;; 99

Số các số thỏa mãn là: $(99 - 81) : 1 + 1 = 19$ (số)

Đáp số: 19 số

Question 9: 6

Question 10: 18