

Question 5. Fill in the blank with the correct number.

5 kg of sugar cost \$4.75. Mary bought 6 kg of sugar and she had \$10.3 left. How much money did she have at first?

Answer: She had \$..... at first.

Question 6. Choose the correct answer.

If $A\# = A : 5$ and $B\$ = 2.4 \times B$ then $29\#\#\$ =$

- A 2.784 B 2.924 C 4.278 D 2.942

Question 7. Fill in the blank with the correct answer.

At Leslie's Hats, 25% of the 48 hats are baseball caps. How many baseball caps are there in the Leslie's Hats?

Answer: There are baseball caps.

Question 8. Choose the correct answer.

Which is the least?

- A 25% of $\frac{4}{7}$ B 25% of $\frac{4}{5}$ C 25% of $\frac{5}{8}$ D 25% of $\frac{5}{6}$

Question 9. Fill in the blank with the correct answer.

The percentage of girl students in a class is 46%. There are 27 boy students in this class. How many students are there in the class?

Answer: There are students.

Question 10. Choose the correct answer.

What is the percentage of change from 25 to 20?

- A 20% increase B 20% decrease
 C 25% increase D 25% decrease

EXAM 3 Grid Ins

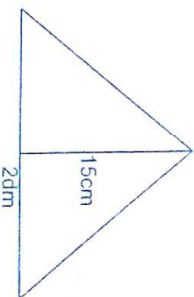
Fill in the blanks with the correct answers to answer 10 questions below.



Question 1. Write 75.6% as a decimal number.

The result is

Question 2. The area of the following triangle is cm^2 .



Question 3. Find x if $9.375 : x = 2.5$.

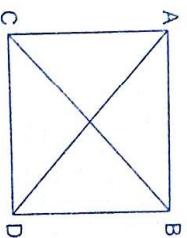
Answer: The value of x is

Question 4. If $A \& B = A - B : 6$ then $39 \& 15 =$

Question 5. Find x if $x\%$ of 125 is 85.

Answer: The value of x is

Question 6. Look at the following figure.

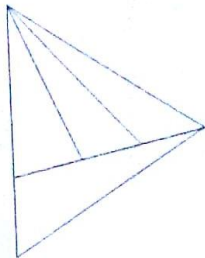


If the area of triangle ADC is 15dm^2 then 35% of area of the square ABCD is dm^2 .

Question 7. 0.4% of 500 is

Question 8. If $8 \times x = 20$ then the value of $x : 4$ is

Question 9. How many triangles are there in the following figure?



Answer: There are triangles.

Question 10. Each letter in the alphabet represent a single digit value such that:

$$\begin{array}{r} \text{ICE} \\ + \text{CREAM} \\ \hline \text{CAKES} \end{array}$$

If A = 3; I = 9; S = 8 then the value of R is

ROUND 7

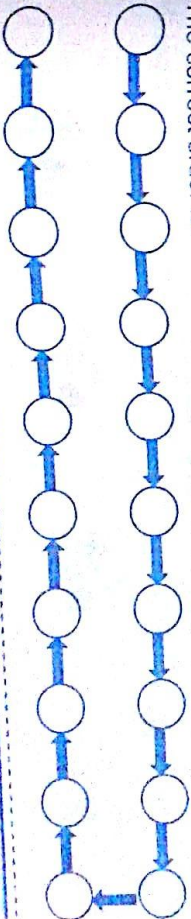
TEST 1

EXAM 1 Arrangement

Arrange numbers or calculations in order from least to greatest then fill their sequence numbers in below.

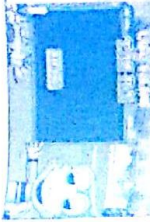
$\frac{1}{5} - \frac{1}{20}$	$1 - 0.3$	$\frac{1}{35} + \frac{1}{70}$	$102.6 - 101.6$
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
$0.01 + 0.03 + 0.05 + \dots + 0.59$	$\frac{3}{20} : 3$	$0.1 + 0.4$	$\frac{1}{10} \cdot \frac{4}{3}$
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
$\frac{1}{30} + \frac{1}{15}$	$\frac{3}{100}$	$\frac{9}{10}$	$\frac{1}{5} + \frac{1}{10}$
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
0.8×4	$0.2 + 0.2$	$\frac{3}{10} \times \frac{1}{9}$	$2.7 - 1.9$
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
$\frac{1}{20} \times \frac{3}{4}$	$1.34 + 0.66$	$\frac{1}{5} \times \frac{3}{2} \times \frac{1}{5}$	0.2×3
<input type="radio"/> 17	<input type="radio"/> 18	<input type="radio"/> 19	<input type="radio"/> 20

The correct order is:



EXAM 2 Golden Frog

Choose the correct answer in 4 available answers.



Question 1. The value of the digit 4 in 3421.78 is

- A 40
- B 4
- C 0.04
- D 400

Question 2. The figure shows a rectangle. The ratio of its length to its perimeter is



- A 3 : 2
- B 3 : 10
- C 6 : 10
- D 6 : 4

Question 3. What fraction of cakes are either square or triangle ?



Choose the correct answer.

- A $\frac{1}{7}$
- B $\frac{4}{7}$
- C $\frac{3}{7}$
- D $\frac{2}{7}$

Question 4. Find x if $\frac{3}{5} \times x = \frac{7}{20}$.

Answer: The value of x is

- A $\frac{7}{12}$
- B $\frac{21}{100}$
- C $\frac{35}{20}$
- D $\frac{7}{4}$

Question 5. Write 84% as a fraction in simplest form.

The result is

- A $\frac{84}{100}$
- B $\frac{42}{50}$
- C $\frac{7}{8}$
- D $\frac{21}{25}$

Question 6. Find x if $7.2386 < 7.23x2$.

Answer: x =

- A 6
- B 9
- C 8
- D 7

Question 7. Who did wrong?

$2.5 \times 7.4 + 12.8 = 31.3$

$3.6 : 2 - 0.75 = 1.05$

$1.3 \times 3.2 + 4.51 = 37.09$

$2 : 2 + 3.7 = 4.1$



Question 8. Mrs. Jane had 64 kg of potatoes. She sold 40% of it at \$2 per kilogram.

She collected

- A \$51.2
- B \$62.5
- C \$32
- D \$102.4

Question 9. A bookstore has 200 magazines for men or women. 53% of the magazines are women's magazines. How many men's magazines does the bookstore have?

Answer: There are

- A 53 magazines
- B 94 magazines
- C 106 magazines
- D 47 magazines

Question 10. The value of $\frac{2}{1 \times 3} + \frac{2}{3 \times 5} + \frac{2}{5 \times 7} + \dots + \frac{2}{77 \times 79}$ is

- A $\frac{6081}{6083}$
- B $\frac{74}{231}$
- C $\frac{78}{79}$
- D $\frac{156}{79}$

EXAM 3 Grid Ins

Fill in the blanks with the correct answers to answer 10 questions below.



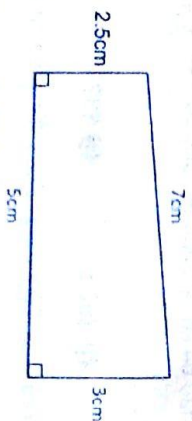
Question 1. Find X if $\frac{3}{7} = \frac{X}{133}$.

Answer: The value of X is

Question 2. $\frac{2}{5}$ of the books in a library are comic books. What percentage of the books in the library are comic books?

Answer: The percentage of the comic books to all the books in the library is%.

Question 3. The area of the following figure isdm².



Question 4. Anna is 12 years old. Her father is $3\frac{1}{4}$ as old as she. How old is Anna's father?

Answer: Anna's father is years old.

Question 5. A school has 27 classes. There are 40 students in each class. If there are 481 girls altogether, how many more boys than girls are there in the school?

Answer: There are students.

Question 6. 35% of 2m 5cm isdm.

Question 7. There were $4\frac{1}{10}$ cakes on the tables. Peter ate $1\frac{1}{2}$ cakes and Jack

ate $2\frac{1}{5}$ cakes. How many cakes were left over?

(Write your answer as a decimal number.)

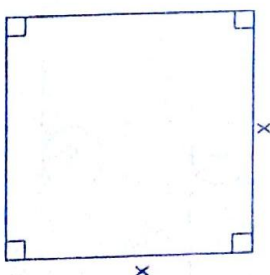
Answer: of cakes were left over.

Question 8. If x is a natural number and $x < 82334$ then the greatest value of x is

Question 9. Susan is 12 years old. Her mother is 75% as old as the sum of her age and her mother's age. How old is Susan's mother?

Answer: Susan's mother is years old.

Question 10. Look at the following figure.



If x is increased by 20% then the area of the square will be increased by%.

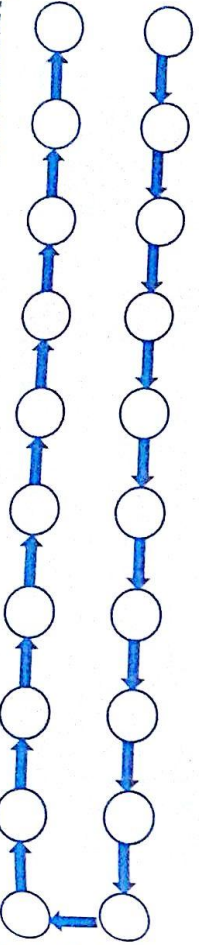
TEST 2

EXAM 1 Arrangement

Arrange numbers or calculations in order from least to greatest then fill their sequence numbers in below.

25% of 16	<input type="radio"/> 1	$\frac{1}{5} - \frac{1}{20}$	<input type="radio"/> 2	0.2 + 0.3	<input type="radio"/> 3	$\frac{1}{5} + \frac{1}{10}$	<input type="radio"/> 4
$\frac{3}{15} : 2$	<input type="radio"/> 5	0.01 + 0.02 + 0.03 + ... + 0.55	<input type="radio"/> 6	$\frac{1}{10} \times \frac{2}{9}$	<input type="radio"/> 7	The value of x if 30% of x is 3	<input type="radio"/> 8
0.1 + 0.3	<input type="radio"/> 9	$\frac{1}{2} \times \frac{3}{5} \times \frac{1}{5}$	<input type="radio"/> 10	1.2 - 0.5	<input type="radio"/> 11	$\frac{1}{20} \times \frac{2}{4}$	<input type="radio"/> 12
$\frac{1}{2} - \frac{3}{15} - \frac{1}{5}$	<input type="radio"/> 13	20% of 25	<input type="radio"/> 14	$\frac{1}{35} + \frac{1}{70}$	<input type="radio"/> 15	2.95 + 0.05	<input type="radio"/> 16
2.8 - 2	<input type="radio"/> 17	$\frac{2}{100}$	<input type="radio"/> 18	0.3 × 2	<input type="radio"/> 19	$\frac{1}{8} : \frac{5}{3}$	<input type="radio"/> 20

The correct order is:



EXAM 2 Golden Frog

Choose the correct answer in 4 available answers.

Question 1. The value of the digit 7 in 3421 78 is

- A 7 B 70 C 0.7 D 700

Question 2. Which of the following fractions is smaller than $\frac{1}{3}$?

- A $\frac{5}{12}$ B $\frac{8}{21}$ C $\frac{10}{27}$ D $\frac{5}{28}$

Question 3. The following table shows the length of four wires.

1 st wire	2 nd wire	3 rd wire	4 th wire
9m 5dm	9.5m	905cm	95dm

Which of these wires is the shortest one?

Answer: The shortest wire is

- A 1st wire B 2nd wire
 C 3rd wire D 4th wire

Question 4. Write $7\frac{1}{2}$ as a decimal number.

The result is

- A 7.1 B 7.2 C 7.4 D 7.5

Question 5. Find the smallest natural number that the sum of its digits is 14.

Answer: This number is

- A 102344 B 149 C 59 D 14

Question 6. Find two numbers if their quotient is 0.8 and their difference is 0.26

Answer: Two numbers are

- A 1.04 and 1.3
- B 2.08 and 1.82
- C 2.6 and 2.34
- D 1.3 and 1.56

Question 7. Which of the following calculations equals 9.222?

- A $3.97 + 6.25$
- B $12.96 : 3 + 4.9$
- C $36.88 : 4 - 1$
- D $4.61 \times 1.5 + 0.5$

Question 8. The next letter or number in this logic sequence:

1; Z; 3; W; 9; T; 27; Q; 81; is

- A R
- B 84
- C N
- D 243

Question 9. The sum of two consecutive odd numbers is 604.

The greater number is

- A 209
- B 301
- C 303
- D 307

Question 10. How many 3 - digit numbers are divisible by 3?

Answer: There are

- A 299 numbers
- B 300 numbers
- C 899 numbers
- D 900 numbers

EXAM 3

Grid Ins

Fill in the blanks with the correct answers to answer 10 questions below.



Question 1. $\frac{72}{100} = \dots\dots\dots\%$

Question 2. Convert: 7m 5cm =cm.

Question 3. Calculate: $2.5 \times 3 + 7.35$.

The result is

Question 4. The value of 2 in 12.0935 is

Question 5. If $\overline{ab} \times 1.01 = a5.\overline{6b}$ then $a + b = \dots\dots\dots$

Question 6. Each letter A or B represent a single digit number such that:

$$\begin{array}{r} AB \\ + AB \\ \hline AB \\ 16B \end{array}$$

Find B.

Answer: The value of B is

Question 7. Peter, Jack and Tom shared 176 marbles in the ratio 4 : 8 : 10. How many more marbles did Tom receive than Peter?

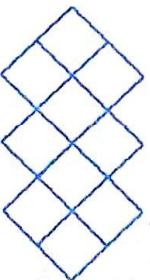
Answer: There are marbles.

Question 8. 29% of x is 377. The value of x is

Question 9. Find x if $(x + 1) + (x + 6) + (x + 11) + \dots + (x + 96) = 990$.

Answer: x =

Question 10. How many squares are there in the following figure?



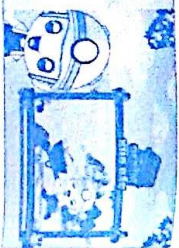
Answer: There are squares.

ROUND 8

TEST 1

EXAM 1 Treasure Hunting

Let's help the miner to go through the maze by answering 10 questions to reach the destination.



Question 1. Fill in the blank with the correct number.

Calculator: $8.1 + 4.5 + 3.9 + 2.5$.

The result is

Question 2. Fill in the blank with the correct number.

12% of what is 36?

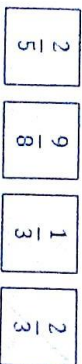
Answer: 12% of is 36.

Question 3. Fill in the blank with the correct number.

The difference between 49.8km and 93.7km ism.

Question 4. Choose the correct answer.

Write the following fractions in order from least to greatest.



Answer: The correct order is

A $\frac{2.1.2.9}{5.3.3.8}$

B $\frac{9.2.2.1}{8.3.5.3}$

C $\frac{1.2.2.9}{3.5.3.8}$

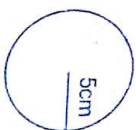
D $\frac{1.2.2.9}{3.3.5.8}$

Question 5. Fill in the blank with the correct number.

If x is a natural number and $0.5 \times x > 8.7$ then the least value of x is

Question 6. Fill in the blank with the correct number.

The area of the following circle is dm^2 .



Question 7. Fill in the blank with the correct number.



The value of x such that $x - 12.4 = 41.4 : 4.6$ is

Answer: The value of x such that $x - 12.4 = 41.4 : 4.6$ is

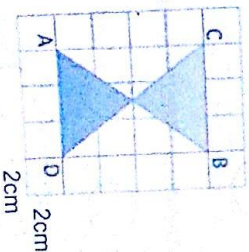
Question 8. Fill in the blank with the correct number.

Find x if the area of the following triangle is 9.75cm^2 .



Answer: $x = \dots\dots$

Question 9. The area of the shaded figure is cm^2 .



Question 10. How many 3 - digit numbers not divisible by 3?

Answer: There are numbers.

EXAM 2 Matching

Choose pairs of numbers or calculations have the same value in the following table's cells then fill their sequence number in below.

60% of 80	12.5 × (6.3 + 3.7)	The value of x if 39.6m ² = xdm ²	5/9 : 7/7
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
$5\frac{9}{7} \times \frac{9}{7}$	12.5 × (6.3 - 3.7)	$\frac{3}{7}$	4.2 × 2.3 + 18.34
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
8% of 6	125	40% of 120	$\frac{13}{5}$
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
$\frac{27}{63}$	24 : 5	$\frac{5}{9}$	The sum of all 2-digit numbers not divisible by 5
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
0.28 × 100	2.6	$1 - \frac{4}{49}$	12.5 × 6.3 - 12.5 × 3.7
<input type="radio"/> 17	<input type="radio"/> 18	<input type="radio"/> 19	<input type="radio"/> 20

Answer: Pairs of numbers or calculations have the same value are:

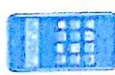
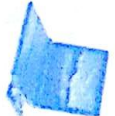


- and ; and ; and ; and
- and ; and ; and ; and
- and ; and

EXAM 3 Grid Ins

Fill in the blanks with the correct answers to answer 10 questions below.

Question 1. Calculate: 2.3m + 6.8m = dm.
The result is

Question 2. How much are the iPhone and the printer altogether?

-  \$799
-  \$685
-  \$165
-  \$750

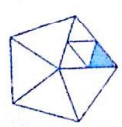
Answer: The iPhone and the printer cost \$..... altogether.

Question 3. If a = 3.5 and b = 8.89 then b : a =

Question 4. Find all x such that 2.91 < x < 11.34 and x is a even number.
(Write numbers in order from least to greatest and use ",")

Answer: x =

Question 5. In the following figure, what percentage is the shaded part?

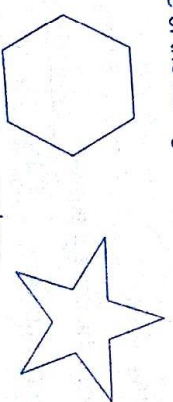


Answer: The percentage of the shaded part is%.

Question 6. Find x such that (x + 2.35) - 4.67 = 14.68.

Answer: The value of x is

Question 7. The perimeter of the star equals the perimeter of the regular hexagon. Each side of the hexagon is 16cm long. How long is each side of the star?

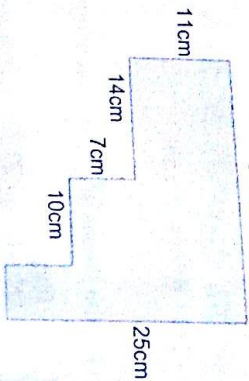


Answer: Each side of the star is ...cm long.

Question 8. Fill in the blank with the correct number.

$$2\text{m}^3 3\text{dm}^2 + 1\text{m}^3 35\text{cm}^2 = \dots\dots\text{cm}^2$$

Question 9. The area of the following figure is $\dots\dots\text{cm}^2$.



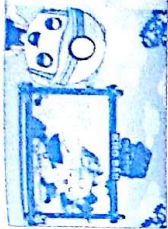
Question 10. Fill in the blank with the correct number.

Tina works 17 hours a week (from Monday to Friday). Last week she worked 4.5 hours on Monday, 5 hours on Tuesday, 2.2 hours on Wednesday and 1.5 hours on Thursday. She worked $\dots\dots$ minutes on Friday.

TEST 2

EXAM 1 Treasure Hunting

Let's help the miner to go through the maze by answering 10 questions to reach the destination.



Question 1. Fill in the blank with the correct number.

Calculate: $124.7 : 100 + 34.25$.

Answer: The result is $\dots\dots$

Question 2. Choose the correct answer.

- Look at these numbers :
- | | | | |
|-------|-------|-------|-------|
| 5.586 | 0.293 | 0.675 | 5.595 |
|-------|-------|-------|-------|

Two numbers in the box have a sum of 6.261 are:

- A 5.595 and 0.675 B 5.586 and 0.675
 C 5.586 and 0.293 D 5.595 and 0.293

Question 3. Which of the following numbers should replace the question mark?

$$15.41 - \text{?} = 12.06 + 0.7$$

- A 4.05 B 5.04 C 2.56 D 2.65

Question 4. Choose the correct answer.

Andrea has $\frac{1}{4}$ of sack of rice. She divides the rice equally into 7 bags.

What fraction of the full sack of rice is in each bag?

Answer: The fraction of the full sack of rice in each bag is $\dots\dots$

- A $\frac{11}{28}$ B $\frac{1}{28}$ C $\frac{1}{7}$ D $\frac{1}{4}$

Question 5. Fill in the blank with the correct number:

$$2700\text{g} = \dots\dots\text{kg}.$$

Question 6. Fill in the blank with the correct number:

27 is $\dots\dots\%$ more than 15.

Question 7. Find x if $x \times 0.34 = 2.38 \times 3.06$.

Answer: $x = \dots\dots$

Question 8. Fill in the blank with the correct number:

$$3.94\text{m} + 821\text{cm} = \dots\dots\text{cm}.$$

Question 9. Fill in the blank with the correct number.

Nick spent 25% of his money on a book and \$17 on a pair of shoes. If he had \$28 left then he spent \$ $\dots\dots$ on the book.

Question 10. Fill in the blank with the correct number:

A rope 1.5m long is cut into 2 pieces. The longer piece is 26cm longer than the shorter piece. The length of the shorter piece is $\dots\dots\text{cm}$.

EXAM 2 Matching

Choose pairs of numbers or calculations have the same value in the following table's cells then fill their sequence number in below.

$27.3 - (7.5 - 2.3)$	$39.95 - 2.6 - 23.25$	6.375×5	$27.3 - 7.5 - 2.3$
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
$7.3 \times 3 + 3.4$	$107.4 : 6$	$19.8 + 2.3$	The value of x if $39dm6cm = xcm$
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
$9.29 + 2.5 + 3.17$	$15 : 8$	$3.125 \times 2 + 7.85$	The 333^{rd} number in the sequence: 5; 10; 15; 20; ...
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
The sum of all 2 - digit numbers divisible by 3	$6.5 \times 3 - 1.6$	$14.515 + 17.36$	$7.5 : 2$
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
$19.8 - 2.3$	$7.7 + 17.6$	$3 \times 11 \times 12$	$19.16 - 4.2$
<input type="radio"/> 17	<input type="radio"/> 18	<input type="radio"/> 19	<input type="radio"/> 20

Answer: Pairs of numbers or calculations have the same value are:

- and ; and ; and ; and
- and ; and ; and ; and
- and ; and

EXAM 3 Grid Ins

Fill in the blanks with the correct answers to answer 10 questions below.

Question 1. A roller skate costs 50 dollars. Mary receives a 10% discount. How much does she have to pay?

Answer: She has to pay \$.....

Question 2. Fill in the blank with the correct number:

$$2.25dam^2 \times 7 = \dots\dots m^2$$

Question 3. Find x such that $x - 12.5 = 10.75 : 2.5$.

Answer: The value of x is

Question 4. Alex painted a fence. He completed $\frac{3}{5}$ of the work on Monday. On Tuesday, he was tired and completed only $\frac{1}{4}$ of the fence. The last day,

on Wednesday, he painted $\frac{A}{B}$ of the fence. Find A if B = 60.

Answer: A =

Question 5. Jane bought jelly beans. She gave $\frac{9}{11}$ of them for Jack. Jane kept 36 jelly beans. How many jelly beans did she buy altogether?

Answer: Jane bought jelly beans altogether.

Question 6. Fill in the blank with the correct number:
15% of 370kg =g.

Question 7. The perimeter of this rectangle is 210cm and the ratio of x to y is $\frac{3}{4}$ then its area isdm².

