

Question 7. Choose the correct answer.

Write 0.15 as a fraction in simplest form.

- A $\frac{15}{100}$ B $\frac{3}{20}$ C $\frac{15}{10}$ D $\frac{3}{2}$

Question 8. Choose the correct answer.

Find a if a is 3 times of b; b is $\frac{1}{4}$ of c and $c = \frac{3}{5}$.

- A 0.9 B 0.45 C 0.18 D 0.75

Question 9. Choose the correct answer.

Find the greatest value of x if it is a natural number and $x < 9.745$.

- A 9 B 8 C 7 D 10

Question 10. Choose the correct answer.

Find x if $\overline{ab3.738} < \overline{ab3.7x4} < \overline{ab3.753}$.

- A 3 B 4 C 5 D 6

EXAM 2 Kid Champion

Let's reach the intellectual peak by answering the questions below.



Question 1. In 376,258 which digit is in the hundredths place?

Answer: The digit in the hundredths place is

Question 2. Convert 4 ton 15kg to ton.

Answer: 4 ton 15kg = ton.

Question 3. Find the next decimal number in the sequence:

21.2 ; 23.5 ; 25.8 ; 27.11 ;

Answer: The next decimal number in this sequence is

Question 4. Compare: 2m 3cm and 2.3m

Answer: 2m 3cm 2.3m.

Question 5. Calculate: $a + b$ if $a = 3.15$ and $b = 8.26$.

Answer: $a + b = \dots\dots\dots$

Question 6. Write $4\frac{53}{100}$ as a decimal number.

Answer: The result is

Question 7. Calculate: $27.765 - 13.64 + 8.123$.

Answer: The result is

Question 8. Find a, b if they are two consecutive natural numbers and $a < 23.4535 < b$.

Answer: The value of a is

The value of b is

Question 9. Find a decimal number if it is decreased by 2.7, the result is increased by 3.5 then the last result is 7.5.

Answer: This number is

Question 10. Find the greatest value of m if m is a natural number and $3.72 + m < 12.36$.

Answer: The greatest value of m is

EXAM 3 Grid Ins

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



Question 1. In 718,3452 which digit is in the tens place?

Answer: The digit in the tens place is

Question 2. Compare: 0.34 and $\frac{340}{1000}$.

Answer: 0.34 $\frac{340}{1000}$.

ROUND 5

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. Calculate: $87.23 - 25.76 = \dots\dots$

Choose the correct number to fill in the blank.

- A 61.47 B 60.47 C 61.57 D 60.57

Question 2. If $x + 5.42 = 13.76$ then $x = \dots\dots$

Choose the correct number to fill in the blank.

- A 8.24 B 8.34 C 7.43 D 8.43

Question 3. If $a = 1.25$ and $b = 7$ then $ax + b = \dots\dots$

Choose the correct number to fill in the blank.

- A 8.85 B 8.65 C 8.175 D 8.75

Question 4. Calculate: $4.25 \times 2.5 = \dots\dots$

Choose the correct number to fill in the blank.

- A 11.625 B 106.25 C 10.625 D 116.25

Question 5. A milk factory produced 589.5 liters of milk in 6 hours. How much milk, on average, did the factory produce per hour?

Choose the correct answer:

- A 98.125 liters B 98.25 liters
 C 97.25 liters D 97.125 liters

Question 3. Which of the following decimal numbers is the greatest number?

6.04 ; 5.36 ; 3.89 ; 7.02 ; 4.75.

Answer: The greatest decimal number is

Question 4. Fill in the blank with the correct decimal number:

7kg 25g =kg.

Answer: The correct decimal number is

Question 5. Compare: A = $3.45 + 2.4 + 7.64$ and B = $4.43 + 1.7 + 7.32$.

Answer: A B.

Question 6. Find x if $x + 14.63 = 27.721$.

Answer: The value of x is

Question 7. The area of a rectangle is 7232cm^2 . The area of a circle is 5346cm^2 .

Calculate the sum of area of this rectangle and this circle.

Answer: The sum of area of the circle and the rectangle is dm^2 .

Question 8. Compare: A = $1.\overline{b5} + a.\overline{23} + 4.\overline{61c}$ and B = $a.\overline{b0c} + 5.\overline{79}$.

Answer: A B.

Question 9. How many natural numbers n such that $n < 7.25 < n + 3$?

Answer: There are numbers.

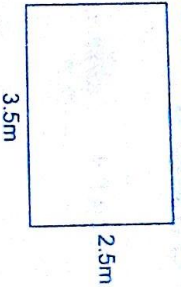
Question 10. Find a , b if they are two consecutive even numbers and

$a + 1 < 11.6443 < b$.

Answer: The value of a is

The value of b is

Question 6. The area of the following rectangle is:



- A 7.75m² B 9.75m² C 8.25m² D 8.75m²

Question 7. Find two decimal numbers if their sum is 30.3 and their difference is 3.1.

Answer: Two numbers are:

- A 17.8 and 12.5 B 16.3 and 14
 C 16.7 and 13.6 D 17.6 and 12.7

Question 8. The sum of two decimal numbers is 20.1. If the first number is increased by 5 times and the second number is unchanged then new sum will equal 70.5.

The first number is

- A 12.6 B 7.5 C 8.5 D 11.6

Question 9. The difference of two decimal numbers is 2.85. If the greater number is increased by 3 times and the less number is unchanged then the new difference will equal 17.31.

The greater number is

- A 5.38 B 8.23 C 7.23 D 4.38

Question 10.



The missing number in the is

- A 7.93 B 9.74 C 8.93 D 10.24

EXAM 2 Grid Ins

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



Question 1. $23.75 + \dots = 58.123$

The missing number is

Question 2. Find x if $3 \times x = 38.1$.

Answer: The value of x is

Question 3. Calculate: $3.7 \times 9.2 - 12.5 \div 2$.

Answer: The result is

Question 4. Find x if $x \div 4.35 = 6.3$.

Answer: The value of x is

Question 5. $12.5 \times 5 + \dots \times 4 = 73.3$.

The missing number is

Question 6. Compare: $A = 2.175 \times 5$ and $B = 10 \div 0.8 + 0.071 + 0.005$.

Answer: A B.

Question 7. If $x = y \div 2$; $y = z \div 3$ and $z + 14.68 = 40.48$ then the value of x is

Question 8. Find a if $1.01 \times ab = 80.4a$.

Answer: The value of a is

Question 9. John's weight is 67.5 pounds and Sarah's weight is 26.5 pounds. If both John and Sarah lose x pounds weight then Sarah's weight will be equal to $\frac{1}{3}$ of John's weight. The value of x is

Question 10. The area of a rectangle is 30 cm^2 . If its length is increased by 3cm and its width is unchanged then its area will equal 41.4 cm^2 . Find its width.

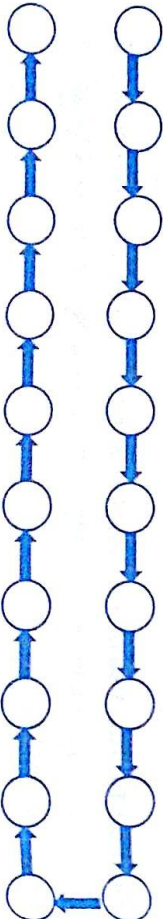
Answer: The width of the rectangle is cm.

EXAM 3 Arrangement

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

9.01	32.1 : 3	5.2 x 2	4.06
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
0.109×100	3.07	$5.6 + 4.5$	2×5.3
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
6.04	The least 2 - digit natural number which has two digits the same	7.03	1.09
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
$25.6 - 15.3$	8.02	1.08×10	10
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
2.08	2.1×5	5.05	$10 \frac{1}{5}$
<input type="radio"/> 17	<input type="radio"/> 18	<input type="radio"/> 19	<input type="radio"/> 20

The correct order is:



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. Calculate: 12.3×4 .

Choose the correct answer.

- A 48.2
- B 49.2
- C 49.02
- D 48.02

Question 2. Find x if $x = 0.00003 \times 10$.

Answer: The value of x is

- A 0.00003
- B 0.0003
- C 0.0030
- D 0.03

Question 3. Find the value of x + 2 if $23.4 \times 0.2 = x$.

Answer: The value of x + 2 is

- A 6.68
- B 4.48
- C 4.68
- D 6.48

Question 4. Calculate: 7.429×100 .

Answer: The result is

- A 7.429
- B 74.29
- C 742.9
- D 7429

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

$$5 \times \dots = 13.75.$$

Answer: The correct number is

- A 2.55
- B 3.75
- C 3.25
- D 2.75

Question 6. Calculate the perimeter of the following star.



Which of the following answers is not correct?

- A 2375cm
- B 23.75m
- C 23m 75dm
- D 23m 75cm

Question 7. If the sum of two decimal numbers is 27.2 and the greater number is seven times of the less number then the greater number is

Choose the correct answer.

- A 23.8 B 25.2 C 3.4 D 4.4

Question 8. Calculate: $1.1 + 1.2 + 1.3 + \dots + 9.8$.

The result is

- A 245.25 B 959.2 C 490.5 D 479.6

Question 9. The sum of two decimal numbers is 14.04. If the first number is increased by 5 times and the second number is increased by 2 times then the new sum will equal 35.1.

The first number is

- A 11.7 B 2.34 C 3.24 D 10.8

Question 10. How many decimal numbers are there between 17 and 18 such that have one digit in fraction part?

Answer: There are

- A 11 numbers B 8 numbers
 C 9 numbers D 10 numbers

EXAM 2 Grid Ins

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



Question 1. Calculate: 19.7×6 .

Answer: The result is

Question 2. Find x if $23.4 : x = 3$.

Answer: The value of x is

Question 3. Mrs. Emily used 0.93kg of flour to make a cake. How much flour did she use to make 100 such cakes?

Answer: She usedkg of flour to make 100 such cakes.

Question 4. If $x : y = 3.4$ and $y \times 4 = 9.2$ then $x + y = \dots\dots\dots$

Question 5. 1 kg of apples costs \$4.35 and 1 kg of grapes costs \$7.2. How much does Mrs. Marie have to pay for 2 kg of grapes and 3 kg of apples?

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

Question 6. Jane had \$40. She bought 5kg of mangoes at \$4.55 per kilogram.

How much money did she have left?

Answer: She had \$..... left.

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

$$23.4 \times 3 - \dots\dots\dots \times 10 = 15.6$$

Answer: The correct number is

Question 8. Find b if $1.001 \times abc = a5c.2b9$.

Answer: The value of b is

Question 9. The area of a rectangle is 24.7m^2 . If its length is decreased by 5 times and its width is increased by 6 times then its area will equal m^2 .

Question 10. Find the next decimal number in this sequence:

$$1.5 ; 4.5 ; 13.5 ; 40.5 ; \dots\dots\dots$$

Answer: The next decimal number in the sequence is

Question 7. If the sum of two decimal numbers is 27.2 and the greater number is seven times of the less number then the greater number is

Choose the correct answer.

- A 23.8
- B 25.2
- C 3.4
- D 4.4

Question 8. Calculate: $1.1 + 1.2 + 1.3 + \dots + 9.8$.

The result is

- A 245.25
- B 959.2
- C 490.5
- D 479.6

Question 9. The sum of two decimal numbers is 14.04. If the first number is increased by 5 times and the second number is increased by 2 times then the new sum will equal 35.1.

The first number is

- A 11.7
- B 2.34
- C 3.24
- D 10.8

Question 10. How many decimal numbers are there between 17 and 18 such that have one digit in fraction part?

Answer: There are

- A 11 numbers
- B 8 numbers
- C 9 numbers
- D 10 numbers

EXAM 2 Grid Ins

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



Question 1. Calculate: 19.7×6 .

Answer: The result is

Question 2. Find x if $23.4 : x = 3$.

Answer: The value of x is

Question 3. Mrs. Emily used 0.93kg of flour to make a cake. How much flour did she use to make 100 such cakes?

Answer: She usedkg of flour to make 100 such cakes.

Question 4. If $x : y = 3.4$ and $y \times 4 = 9.2$ then $x + y = \dots\dots\dots$

Question 5. 1 kg of apples costs \$4.35 and 1 kg of grapes costs \$7.2. How much does Mrs. Marie have to pay for 2 kg of grapes and 3 kg of apples?

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

Question 6. Jane had \$40. She bought 5kg of mangoes at \$4.55 per kilogram. How much money did she have left?

Answer: She had \$..... left.

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

$$23.4 \times 3 - \dots\dots\dots \times 10 = 15.6$$

Answer: The correct number is

Question 8. Find b if $1.001 \times abc = a5c.2b9$.

Answer: The value of b is

Question 9. The area of a rectangle is $24.7m^2$. If its length is decreased by 5 times and its width is increased by 6 times then its area will equal m^2 .

Question 10. Find the next decimal number in this sequence:

- 1.5 ; 4.5 ; 13.5 ; 40.5 ;

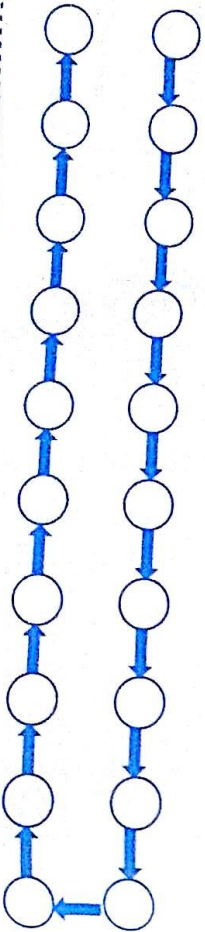
Answer: The next decimal number in the sequence is

EXAM 3 Arrangement

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

8.4×9	$7.6 + 3.5$	$0.8 \times 6 + 7.2$	$15.7 + 9.12 - 12.92$
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
The greatest 2-digit natural number which has two digits the same	$5.3 \times 3 + 15.3$	2.9×4	$5723\text{cm} = \dots\text{m}$ The missing number in the blank
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
5.7×2	$4.5 \times 7 + 15.4 \times 2$	$24.1 \times 4 - 8.4 \times 3$	$13.6 - 2.3$
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
$15.1 \times 4 + 83.4 : 3$	$34.5 : 3$	10.1×9	$24.4 - 4.7 - 7.9$
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
$16.4 - 5.2$	$90.09 : 3 + 10.01$	3.9×3	$3.1 \times 9 - 5.8$
<input type="radio"/> 17	<input type="radio"/> 18	<input type="radio"/> 19	<input type="radio"/> 20

The correct order is:



ROUND 6

TEST 1

EXAM 1 Matching

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

$1\% + 3\% + 5\% + \dots + 99\%$	4.5	$9 : 4$	$8 : 2.5$
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
$19 : 8$	The value of $x + 2$ if $x \times 12 = 27$	$7 : 5$	$24 : 2.5$
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
$21\% + 23\%$	1.4	$25 : 111.11 \times 111.11$	1.25
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
$3.25 : 2.6$	$19\% + 25\%$	$12.15 : 2.7$	$34 : 8$
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
$19.78 : 2.3 + 1$	The value of x if $x \times 12 = 27$	3.2	2.375
<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 2 Jump Over

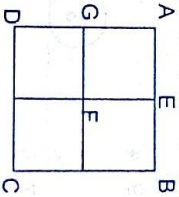
You have to drive your car passing 10 obstacles to finish. In order to overcome each obstacle, you have to answer correctly one question in that obstacle. Are you ready?



Question 1. Choose the correct answer.

Look at the following figure.

Find the area of the square AEEFG if the area of the square ABCD is 15cm^2 .



Answer: The area of the square AEEFG is

- A 4cm^2
- B 3.75cm^2
- C 5cm^2
- D 1.5cm^2

Question 2. Choose the correct answer.

Find x if $x \times 5 = 17$.

Answer: The value of x is:

- A 3.2
- B 5.4
- C 2.4
- D 3.4

Question 3. Choose the correct answer.

The percentage of the number of triangles to the number of rectangles in the following figure is:



- A 60%
- B 37.5%
- C 45.5%
- D 75%

Question 4. Choose the correct answer.

The value of $15.98 : 4.7$ is

- A 3.7
- B 3.4
- C 5.4
- D 5.7

Question 5. A chocolate factory made 865 pounds of milk chocolate in 4 days. How much milk chocolate, on average, did the factory make per day?

Choose the correct answer.

- A 125.26 pounds
- B 216.52 pounds
- C 215.26 pounds
- D 216.25 pounds

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

Each letter A ; B ; C ; D ; E ; F represents a single digit number.

Such that: $A : B = C : D$

$$D : B = E : F$$

If $A = 7$ and $B = 5$ then the value of F is

Question 7. Choose the correct answer.

Jane bought 12m of the lace. She cut it equally into 8 pieces. The length of each piece is:



- A 1m
- B 2m
- C 1.5m
- D 2.5m

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



Which number should replace the question mark?

Answer: The number that should replace the question mark is

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

The percentage of girl students in a class is 48%. There are 26 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 20 to 25?

- 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.

WEB
TJU ANH

Question 1. Write 90% as a decimal number.

The result is

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



Question 3. Find x if $x \times 2.5 = 9.75$.

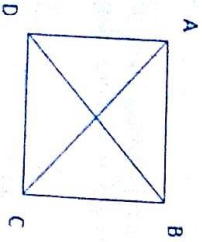
Answer: The value of x is

Question 4. If $A \text{ @ } B = (A - B) : 6$ then $37 \text{ @ } 16 = \dots\dots$

Question 5. Find x if $x\%$ of 152 is 114.

Answer: The value of x is

Question 6. Look at the following figure.



If the area of triangle ADC is 15dm^2 then 27% of area of the square ABCD is dm^2 .

Question 7. 0.4% of 250 is

Question 8. If $8 \times x = 20$ then the value of $x : 5$ is

Question 9. Three shapes below are each given a value. Each value is a decimal number or whole number such that:

$$\diamond + \star = 5.5 ; \star - \diamond = 13.5 ; \star \times 2 = 8$$

Calculate: $\star : \star : \diamond$

Answer: The result is

Question 10. Find B if 16% of B is 20.

Answer: B =

TEST 2

EXAM 1 Matching

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

54% - 25%	7.54	15.05 + 3.67	20% of the least 2-digit number
<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
2 : 80	7.436 + 6.8	51% - 22%	4.48 + 3.06
<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8
7.436 - 6.8	15.05 - 3.67	5.5 : 2.5 - 0.2	20% of 20% of 20% of 1
<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
0.036 : 4.5	20% of the greatest 2-digit number	2.356 - 3.44 : 2	41 : 2.5 + 3.4
<input type="radio"/> 13	<input type="radio"/> 14	<input type="radio"/> 15	<input type="radio"/> 16
3.7 + 2.56 × 3	18.72	25% of 20% of 25% of 2	14.236
<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 : and : and

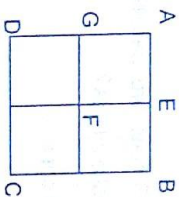
EXAM 2 Jump Over

You have to drive your car passing 10 obstacles to finish. In order to overcome each obstacle, you have to answer correctly one question in that obstacle. Are you ready?

Question 1. Choose the correct answer.

Look at the following figure.

Find the area of the square AEEG if the area of the square ABCD is 27cm².



Answer: The area of the square AEEG is

- A 6.75cm² B 3.75cm² C 5.75cm² D 4.75cm²

Question 2. Choose the correct answer.

Find x if $x \times 4 = 35$.

Answer: The value of x is:

- A 7.5 B 6.75 C 8.5 D 8.75

Question 3. Choose the correct answer.

Which of the following calculations has the least result?

- A 14.95 : 6.5 B 12 : 5 C 15 : 6 D 9.62 : 3.7

Answer: The calculation that has the least result is

Question 4. Choose the correct answer.

Look at these numbers.

0.15 0.9 0.5 0.3 0.09

Two numbers in the box which have a product of 0.45 are:

- A 0.5 and 0.09 B 0.9 and 0.5 C 0.15 and 0.03 D 0.15 and 0.3