- **Evaluate** $(8^2 + 6^2) 7^2$ Q1: B) 47 C) 7^2 D) 51
- **A)** 49

- Q2: $\frac{K-3}{10}$ is equivalent to $\frac{1}{2}$. Find the value of Κ.
- **A)** 6
- **B)** 7
- **c)** 8
- **D)** 9
- **Q3:** $\left(3\frac{1}{2} \frac{2}{3}\right) \times \frac{4}{5} + \frac{1}{5} \div \frac{1}{2}$ Q3: $\left(3\frac{1}{2} - \frac{2}{3}\right) \times \frac{4}{5} + \frac{1}{5} \div \frac{1}{2}$ A) 8/7 B) 8/3 C) 8/5 D) 11/3

- Which of the following is correct?
- **A)** $\frac{7}{9} < \frac{35}{43} < \frac{5}{6}$
- **B)** $\frac{5}{6} < \frac{35}{43} < \frac{7}{9}$
- **c)** $\frac{35}{43} < \frac{7}{9} < \frac{5}{6}$
- **D)** $\frac{35}{43} < \frac{5}{6} < \frac{7}{9}$

- Q5: Which of the following rational number is between $\frac{1}{15}$ and $\frac{1}{16}$ A) $\frac{31}{440}$ B) $\frac{31}{480}$ C) $\frac{30}{490}$ D) $\frac{1}{17}$ A) $\frac{1}{3}$ B) $\frac{3}{5}$ C) $\frac{8}{3}$

- Q6: Find the value of $\frac{(a-b)^{(a-b)}}{(a-b)}$ if a=b=-2A) 4^4 B) 4^3 C) 4^2

- Q7: What is the sum of 11th prime number and 13th positive odd number?
- **A)** 54 **B)** 55 **C)** 56
- **D)** 57

- **A)** 48000 **B)** 12345 **C)** -100
- **D)** 100
- **Q9:** If $a = \frac{1}{0.05}$, $b = \frac{1}{0.02}$ and $c = \frac{3}{0.12}$ then

which one of the following is correct?

- **Q10:** Evaluate $\frac{\left(\frac{1}{3} + \frac{1}{2}\right)}{\left(1 \frac{1}{2}\right)} + 1 = ?$

- **D)** 1

Q11: Evaluate
$$\frac{0.3+0.03+0.003+0.0003}{9.9-(1.1+2.2+3.3)}$$

- **A)** 0.101 **B)** 1.01 **C)** 1.001
- **D)** 1.11

Q12: Sana reads an average of 35 pages per day. If she reads a book of 286 pages at this speed, how many pages will she read on the last day?

- **A)** 12
- **B)** 17 **C)** 6
- **D)** 16

Q13: A football team won 9 games and lost 4 games. Find the percentage of lost games of the team if 12 games were drawn (tied)?

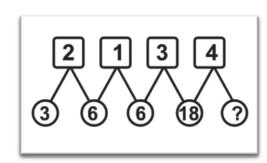
- **A)** 16%
- B) 20% C) 25%
- **D)** 30%

Q14: Find the answer when you divide 123123123**by** 123

A) 111000

- **B)** 1001001
- **c)** 1010101
- **D)** 1001100

Q15: If there is a rule between the following numbers then which one of the following number stands for the question mark?



- **A)** 72
- **B)** 38
- **c)** 22
- **D)** 9

StudenBour **Q16:** Simplify $\frac{60}{81} \times \frac{49}{144} \times \frac{243}{168} \times \frac{2^{3}}{35}$

- A) $\frac{1}{24}$ B) $\frac{1}{48}$ C) $\frac{1}{12}$

Q17:
$$(35 \times 10) + 20 = A$$
 and $(80 \mid 16) - 4 = B$

What is A+B?

- **A)** 371 **B)** 345 **C)** 287
- **D)** 145

Q18:
$$K = \frac{2}{3} + \frac{4}{6} + \frac{8}{12} + \frac{16}{24} + \frac{32}{48}$$
 and $L = \frac{1}{2} + \frac{2}{4} + \frac{4}{8} + \frac{8}{16} + \frac{16}{32}$

Which of the following is incorrect?

- **A)** $K = 5 \times \frac{2}{3}$
- **B)** $L = \frac{5}{2}$
- **c)** 3K = 4L
- D) K = L

Q19: John estimates 2451×129 by rounding the numbers to the nearest hundred. What is the difference between John's estimate and the exact product?

A) 66179

B) 50000

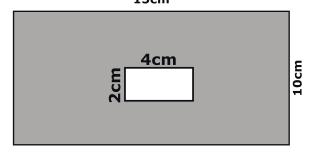
c) 66781

D) 55674

Q20: Which numbers can be combined with the operation $(+,-,\times,\div)$ to get 116?

- **A)** 2,4,5,12
- **B)** 50,2,25,8
- **c)** 5,1,6,50
- **D)** 6,2,15,1

Q21: Find the area of the shaded region? 15cm



- **A)** 142 cm²
- **B)** 150 cm²

C) 158 cm^2

D) 138 cm²

Q22: A property company offers two different payment plans for its apartments.

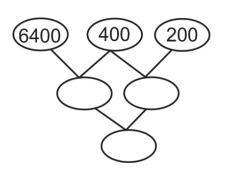
	Advance payment (RS)	Installment payment	Number of installments
1 st plan	Rs. 1200	Rs. 80	16
2 nd plan	Rs. 4600	Rs. 60	12

Farhan buys an apartment with the first payment plan and Ahmed buys an apartment with the second plan.

How much more does Ahmed pay?

- **A)** 2800
- **B)** 2840
- **c)** 2480
- **D)** 2880

He she bigger Q23: In the figure below, we divide number by the smaller number in each write the quotient below the number.



What is the number in the lowest circle?

- **A)** 3
- **B)** 2
 - **C)** 6
- **D)** 8

Q24: The product of two numbers is the biggest possible three-digit odd number. If one of the numbers is 37, what is the other number?

- **A)** 17
- **B)** 13
- **C)** 27
- **D)** 23

Q25: The number in each shape below is related to the shape. What number must be in triangle?







- **A)** 1000
- **B)** 1500
- **c)** 750
- **D)** 250

Q26: Each letter below represents a number.

$$n - 5 = 7$$

$$m \times 3 = n$$

$$n \div m = k$$

$$k+5=t$$

Which letter has the biggest value?

- **A)** n
- **B)** *m*
- C) k
- **D)** *t*

027: Which number cannot be the area of a square if the length of one side of the square is a natural number?

- **A)** 16
- **B)** 28 **C)** 36
- **D)** 121

Q28: Which of the following statement is false?

- **A)** $12 \times 12 = 12^2$
- **B)** $15 \times 15 \times 15 = 15^3$
- **c)** $49 \times 49 = 49^2$ **D)** $4+4+4+4=4^4$

Q29: a = 0.3 and b = 0.5 then find $\frac{1}{a} + \frac{1}{b}$

- A) $\frac{16}{3}$ B) $\frac{24}{5}$ C) $\frac{24}{9}$ D) $\frac{1}{9}$

Q30: A+12=102, $B \div 16=3$ and A+B=C so what is C?

- **A)** 122 **B)** 124 **C)** 132
- **D)** 138

Students 3. Q31: a, b and c are natural number

where $a = \frac{b}{c}$ is a mixed number. Find the small

possible value of a+b+c

- **A)** 16
- **B)** 17
 - **C)** 15
- **D)** 14

Q32: A man drives for 17 hours at an average speed of 115km/h. How far does the man travel, in kilometres?

A) 1945km

B) 1955km

- **c)** 1317*km*
- **D)** 1715km

Q33: Which number below has the expanded form

of
$$200 + 50 + 8 + \frac{3}{10} + \frac{5}{100}$$

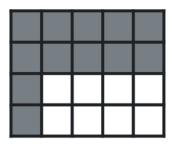
A) 2.5835

B) 2583.5

C) 258.35

D) 25.835

Q34: What percentage of the figure below is shaded?



- **A)** 40%
- **B)** 50%
- **c)** 60%
- **D)** 45%

Q35: The price of an LCD television goes up by 20%. The old price was \$ 1500. What is the new price of the television?

A) \$1640

B) \$1680

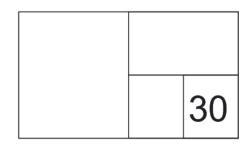
c) \$1750

D) \$1800

Q36: Ali has a stick, which is 27cm long. He measures one side of his school and finds it 40 sticks long. What is length of his school in meters?

- **A)** 10.2*m*
- **B)** 10.4*m*
- **c)** 10.8m
- **D)** 12*m*

Q37: The big rectangle below represents a number. The small square is equal to 30. Which sentence below describes this figure in words



- A) $\frac{1}{2}$ of $\frac{1}{4}$ of $\frac{1}{2}$ of a number is 30
- **B)** $\frac{1}{2}$ of $\frac{1}{2}$ of $\frac{1}{2}$ of a number is 30
- C) $\frac{1}{4}$ of $\frac{1}{2}$ of $\frac{1}{2}$ of a number is 30
- D) $\frac{1}{2}$ of $\frac{1}{2}$ of $\frac{1}{4}$ of a number is 30

Students Q38: Irina gave correct answers to questions in an exam. She gave wrong 1/ 10 of the questions and did not answer questions. How many questions were in the

- **A)** 45
- **B)** 60
- **c)** 75
- **D)** 90

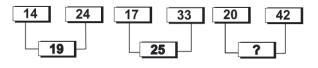
Q39: Hakan says: " The sum of 1/3 and 4/9 of a number is 35." Find the number

- **A)** 35
- **B)** 45
- **C)** 30
- **D)** 50

Q40: Find the sum of numbers between 15 and 55 which are divisible by 5

- **A)** 195
- **B)** 265
- **C)** 225
- **D)** 245

Q41: What is? in the number pattern below?



- **A)** 33
- **B)** 29
- **c)** 21
- **D)** 31

Q42: Ali uses the digits 3,5,6,8,9 and 0 to make the biggest possible six-digit odd number with the biggest digit in the ten thousand place. What is his number?

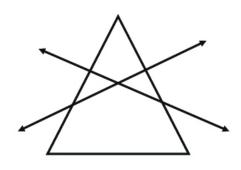
A) 865390

B) 896530

c) 896503

D) 865309

Q43: Two lines intersect inside a triangle as shown below. Which polygonal region is not formed by the lines and triangle?



A) Triangle

- B) Quadrilateral
- C) Pentagon
- D) Hexagon

Q44: If we subtract 7 from 2013 continuously, which of the following number we can not find?

A) 1964

B) 1915

C) 1866

D) 1818

Q45:
$$\frac{1^1}{1} + \frac{2^2}{2} + \frac{3^3}{3} + \frac{4^4}{4} = ?$$

- **A)** 39
- **B)** 76
- **c)** 144
- **D)** 288

Students Q46: After every four days in a cou if the last holiday was on Friday which holiday after 72 days

A) Monday

B) Tuesday

C) Friday

D) Sunday

Q47: Which of the following number is the next number in sequence

$$1 \times 1^2 + 2 \times 3^2 + 3 \times 5^2 + 4 \times 7^2 +$$

- **A)** 900 **B)** 405 **C)** 450
- **D)** 45

Q48: In a division operation, the divisor is 28 and the quotient is 14. The remainder is the average of the divisor and the quotient.

What is the dividend?

- **A)** 413
- **B)** 431 **C)** 396
- **D)** 451

Q49: Find the smallest number so that when you divide it by 18, 24 and 30, in each case, the remainder is 2.

- A) 360
- B) 258
- C) 362
- D) 422

Q50: 355×143

A maths teacher writes the above operation on the board. Four students estimate the result. Whose estimate (nearest ten) is closest to the actual value

- **A)** 350×140
- **B)** 360×140
- **c)** 300×100
- **D)** 350×150