World Maths Championship

Grade 8

Name: _____

Date: _____

Question: 1 of 50   QID: 19705   Marks:1

How many sides does a regular polygon have if each of its interior angles is 165°?

○ **A.** 25   ○ **B.** 26

○ **C.** 24   ○ **D.** 28

Question: 2 of 50   QID: 19712   Marks:1

What is the number of possible outcomes, when two dies are thrown, simultaneously?

○ **A.** 12   ○ **B.** 6

○ **C.** 36   ○ **D.** 40

Question: 3 of 50   QID: 19718   Marks: 1

Factorise.ax+bx–ay–by

○ **A.** (a+b)(x-y)   ○ **B.** (a-b)

○ **C.** (x+y)   ○ **D.** (a-b)(x+y)

Question: 4 of 50   QID: 19711   Marks:1

Represent (11/27) as decimal

○ **A.** 0.740740........   ○ **B.** 0.407407.........

○ **C.** 0.740740.......   ○ **D.** 0.470470.....

Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law". How is the woman's husband related to the man in the photograph?

A.   Nephew

B.   Son-in-law

C.   Son

D.   Grandson

Question: 6 of 50   QID: 19738   Marks: 1

A boy travels a distance 25 km, in 4 hours partly on foot at rate 3.5 km/hr and partly on cycle at 9 km/hr. Find the distance on foot.

A.   6km

B.   7km

C.   8km

D.   9km

Question: 7 of 50   QID: 19725   Marks: 1

Sum of the digits of a two-digit number is 9. When we interchange the digits, it is found that the resulting new number is greater than the original number by 27. What is the two-digit number?

A.   60

B.   30

C.   63

D.   36

Question: 8 of 50   QID: 19709   Marks:1

Arrange the words given below in a meaningful sequence. 1. Heel 2. Shoulder 3. Skull 4. Neck 5. Knee 6. Chest 7. Thigh 8. Stomach 9. Face 10. Hand

A.   3,4,7,9,2,7,8,5,1

B.   3,9,6,8,4,5,2,1,7

C.   3,9,4,2,10,6,8,7,5,1

D.   7,8,9,6,5,4,3,2,1

Question: 9 of 50   QID: 19736   Marks: 1

Two number are in the ratio 3 : 8. If the sum of the number is 165, then find the numbers

A.   55110

B.   65100

C.   45120

D.   35130

The perimeter of a rectangle is 40 cm. If its width is 10 cm, then find the length.

A. 12cm

B. 10cm

C. 20cm

D. 25cm

Question: 11 of 50   QID: 19721   Marks: 1

Find the area of a rhombus whose side is 5 cm and whose altitude is 4.8 cm. If one of the diagonals is 8 cm long, find the length of the other diagonal.

A. 6cm

B. 7cm

C. 8cm

D. 10 cm

Question: 12 of 50   QID: 19745   Marks: 1

If ENGLAND is written as 1234526 and FRANCE is written as 785291, how is GREECE coded?

A. 381171

B. 832252

C. 381191

D. 832254

Question: 13 of 50   QID: 19740   Marks: 1

The result of dividing a number of two digits by the number with digits reversed is 5/6. If the difference of digits is 1, find the number.

A. 45

B. 55

C. 65

D. 64

Question: 14 of 50   QID: 19744   Marks: 1

There is a certain relationship between the numbers on the either side of : :. Select a number from the options which will replace the ?
3 : 15 : : 7 : ?

A. 35

B. 22

C. 12

D. 21

A rectangular box has a length (5P - 6)m and breadth is (P + 4)m. What is the breadth of the box, if its perimeter is 20 m

A. 2   B. 4

C. 6   D. 8

Which are prisms among the following:

(i)

A nail

(ii)

Unsharpened pencil

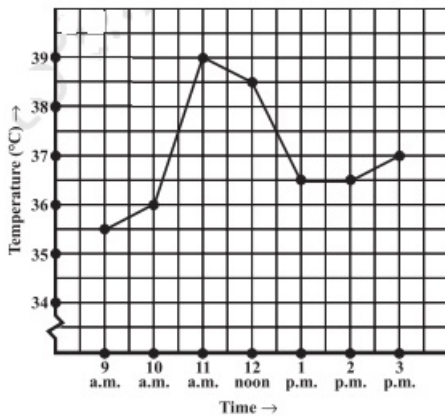(iii)
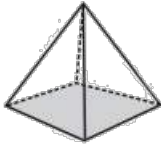
A table weight

(iv)
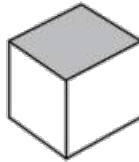
A box

A. (iii) , (iv)   B. (i),(ii)

C. (iii),(ii)   D. (iii),(i)

The following graph shows the temperature of a patient in a hospital, recorded every hour.When was the patient's temperature 38.5° C?

A. 11 a.m   B. 1 p.m

C. 2.p.m   D. 12noon

Add the following. ab – bc, bc – ca, ca – ab

○ **A.** a

○ **B.** 0

○ **C.** b

○ **D.** c

A letter T shape is made by sticking together 2 cuboids as shown in the diagram. What is the total volume of the letter T?

○ **A.** 40 cubic centimetre

○ **B.** 42 cubic centimetre

○ **C.** 48 cubic centimetre

○ **D.** 52 cubic centimetre

A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?

○ **A.** 500

○ **B.** 750

○ **C.** 700

○ **D.** 800

Zero has _____reciprocal.

○ **A.** 1

○ **B.** 3

○ **C.** No

○ **D.** 5

120 men had provision of food for 200 days, after 5 days, 30 men died due to expediency (i.e. due to some other immediate cause). How long will the remaining food last?

○ **A.** 230 days

○ **B.** 240 days

○ **C.** 250 days

○ **D.** 260 days

The number of hours for which students of a particular class watched television during holidays is shown in the given graph.How many students watched TV for less than 4 hours?
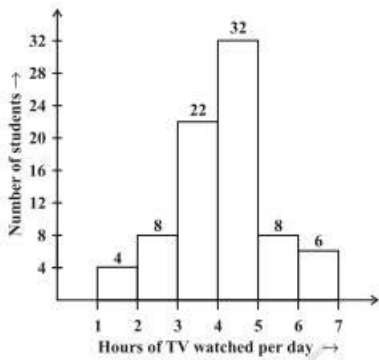
A. 33

B. 34

C. 30

D. 29

The additive identity of rational numbers is:

A. 0

B. 1

C. -1

D. 10

The value of $(5/4) - (8/3)$ is:

A. (-12/17)

B. (-17/12)

C. (-17/2)

D. (-17/22)

In the given Venn diagram, find the region representing persons who are educated and employed but not confirmed in Job.
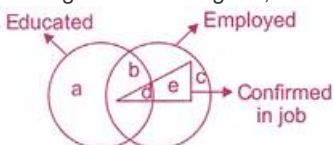
A. b

B. a

C. e

D. a,b

The angles of a quadrilateral are in ratio 1:2:3:4. Which angle has the largest measure?

- **A.** 144 degrees
- **B.** 120 degrees
- **C.** 96 degrees
- **D.** 36 degrees

If 21y5 is a multiple of 9, where y is a digit, what is the value of y?

- **A.** 8
- **B.** 1
- **C.** 7
- **D.** 6

What will be the unit digit of the squares of the following number 52698

- **A.** 6
- **B.** 3
- **C.** 4
- **D.** 2

A rational number can be represented in the form of:

- **A.** pq
- **B.** (p/q)
- **C.** p+q
- **D.** p-q

In the above figure both RISK and CLUE are parallelograms. Find the value of x.
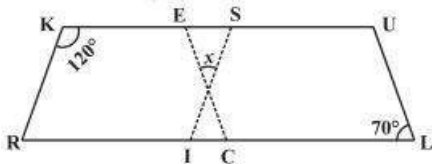
- **A.** 50 degrees
- **B.** 70 degrees
- **C.** 100 degrees
- **D.** 180 degrees

The adjacent figure HOPE is a parallelogram. Find the angle measuring x.
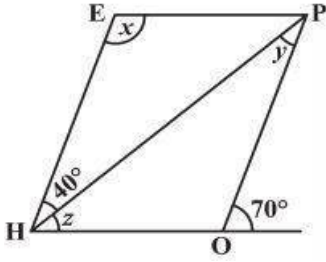
- ⃝ **A.** 100 degrees
- ⃝ **B.** 120 degrees
- ⃝ **C.** 110 degrees
- ⃝ **D.** 90 degrees

Question: 33 of 50   QID: 19704   Marks:1

Length of the fence of a trapezium shaped field ABCD is 120 m. If BC = 48 m, CD = 17 m and AD = 40 m, find the area of this field. Side AB is perpendicular to the parallel sides AD and BC.

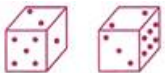- ⃝ **A.** 660 square m
- ⃝ **B.** 600 square m
- ⃝ **C.** 606 square m
- ⃝ **D.** 660 square m

Question: 34 of 50   QID: 19730   Marks: 1

Find the cube root of 15625

- ⃝ **A.** 55
- ⃝ **B.** 45
- ⃝ **C.** 35
- ⃝ **D.** 25

Question: 35 of 50   QID: 19752   Marks: 1

Which number is closest to 6 ?

- ⃝ **A.** 2.7
- ⃝ **B.** 2.4
- ⃝ **C.** 2.6
- ⃝ **D.** 1.7

Question: 36 of 50   QID: 19753   Marks: 1

Two positions of a block are given. When 1 is at the top, which number will be at the bottom?

- ⃝ **A.** 4
- ⃝ **B.** 5
- ⃝ **C.** 6
- ⃝ **D.** 1

In a row of boys facing North, A is sixteenth from the left end and C is sixteenth from the right end. B, who is fourth to the right of A, is fifth to the left of C in the row. How many boys are there in the row?

A. 39

B. 40

C. 41

D. 42

Question: 38 of 50   QID: 19732   Marks: 1

The age of the father is three times the age of the son. If the age of the son is 15 years old, then the age of the father is:

A. 35

B. 40

C. 45

D. 50

Question: 39 of 50   QID: 19720   Marks: 1

On Sunday, 845 people went to the zoo. On Monday, only 169 people went. What is the per cent decrease in the number of people visiting the zoo on Monday?

A. 0.9

B. 0.6

C. 0.7

D. 0.8

Question: 40 of 50   QID: 19751   Marks: 1

If 'lead' is called 'stick', 'stick' is called 'nib', 'nib' is called 'needle' 'needle' is called 'rope' and 'rope' is called 'thread', what will be fitted in a pen to write with it?

A. stick
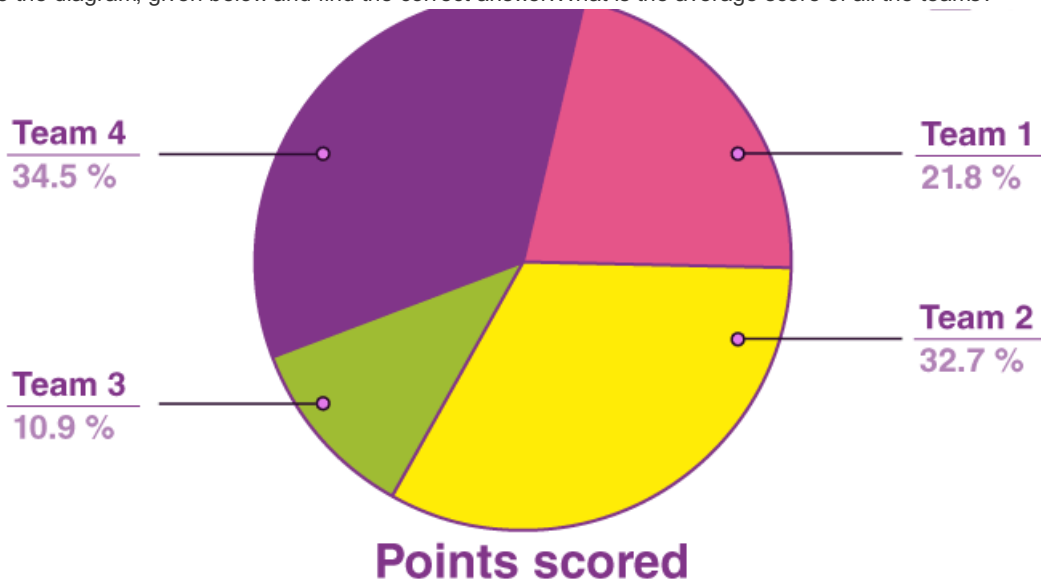
B. need

C. needle

D. lead

Question: 41 of 50   QID: 19707   Marks:1

A rational number is such that when you multiply it by 5/2 and add 2/3 to the product, you get -7/12. What is the number?

A. (-1/5)

B. (-1/4)

C. (-1/3)

D. (-1/2)

Observe the diagram, given below and find the correct answer.What is the average score of all the teams?

Team 4
34.5 %

Team 1
21.8 %

Team 2
32.7 %

Team 3
10.9 %

Points scored

○ **A.** 0.24   ○ **B.** 0.25

○ **C.** 0.28   ○ **D.** 0.27

Find the odd one out .

○ **A.** Heptagon   ○ **B.** Hexagon

○ **C.** Pentagon   ○ **D.** Nonagon

Lara is 3 inches shorter than Eli. Eli is i inches tall. Choose the expression that shows how many inches tall Lara is..
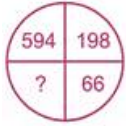
○ **A.** 3-i   ○ **B.** i+3

○ **C.** i   ○ **D.** 1-3

Find the missing number

- A. 44
- B. 11
- C. 33
- D. 22

Riley and Paulina starts from a fixed point. Riley moves 5 km westward and turns left and then covers 6 km. Paulina moves 7 km northward, turns left and walks 5 km. The distance between Riley and Paulina now is _____.

- A. 10km
- B. 8km
- C. 13km
- D. 6km

Look at the number line and answer the following Questions: In the above line representation. A represents _____ Rational number.
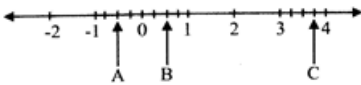
- A. (-1/2)
- B. (1/2)
- C. (-3/2)
- D. (3/2)

Which of the following is a solution to the inequality below?
$x \le 2$

- A. x=12
- B. x=2
- C. x=3
- D. x=4

Find the square of the following number 46

- A. 2000
- B. 2006
- C. 2116
- D. 2010

The point (-3,-2) lies in which quadrant?

A.   1st   B.   3rd

C.   2nd   D.   4th

--- END OF QUESTION PAPER ---