

ATOMIC ENERGY EDUCATION SOCIETY
Anushaktinagar, Mumbai.

Sample paper for SA-2
Academic year-2015-16

Class-V

Subject-Mathematics

I. Choose the correct answer and fill in the blanks/tick. [$\frac{1}{2} \times 10 = 5$]

1. _____ is measured in cubic units.

- a. Area b. Perimeter c. Volume

2. Siya travels from Kanyakumari to Kashmir. She travels towards ---

- a. North b. west c. East

3. From the top view of a bridge we can make out its _____.

- a. height and width b. length and width c. length and height

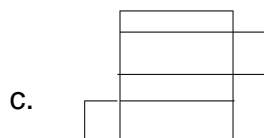
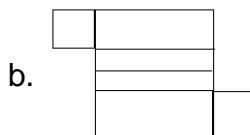
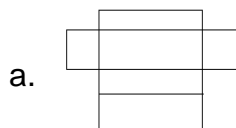
4. If 3 lemons push up 15ml of water, volume of each lemon is _____.

- a. 3 ml b. 5ml c. 1ml

5. $9000\text{m} \times 0.1\text{m} =$ _____.

- a. 900 sq.m b. 9000 sq.m c. 9001 m

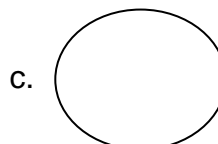
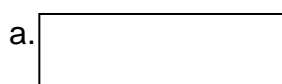
6. Tick the shape which doesn't fold into a box.



7. The most appropriate unit for measuring the area of your school play ground is _____

- a. sqcm b. sqm c. sq km

8. Each of the following figures is made with a wire of the same length. Tick the figure that encloses more area.



9. Rupee 0.5 = _____

- a) 5 paise b) 50 paise c) 5 rupees

10. If 6cm on the map represents 30km on the ground, then the given scale: 1cm = _____

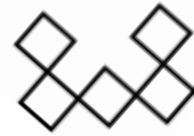
- a. 5km b. 6km c. 10km

II. Fill in the blanks.







$[\frac{1}{2} \times 10 = 5]$

1. The amount of surface enclosed by a plane figure is called its _____

2. Perimeter of the given figure made of 1cm squares is _____cm.



3. The area of the greeting card of length 12cm and width 10cm is _____.

4. If  represents 5 and  represents 1, then     = _____

5. Sriram should grow 10 cm more to reach 2 m height.
Sriram's present height = _____m

6. 4 metre 8 centimetres = _____ metres

7. 32 hundredths can be written as _____.

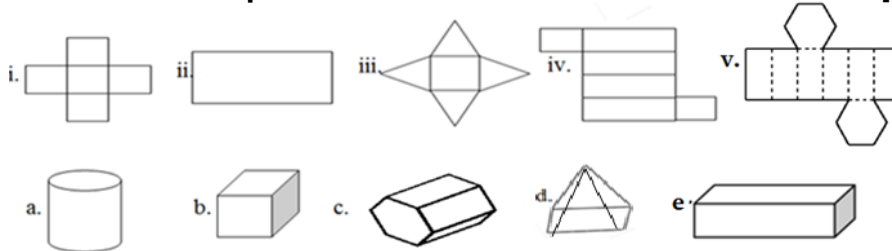
8. You are given a cube of side 4 cm. When its sides are reduced to half of its side, its volume= _____ cu cm.

9. The cost of a toffee is Rs 0.75. We get _____ toffees for rupees3.

10. Navyajyothi school sent the following teams for a sport meet.
_____ team consists one fourth of the total members.



III. Match each shape below with a box into which it will fold. [$\frac{1}{2} \times 5 = 2\frac{1}{2}$]



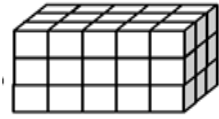
IV. Write True or false.

$[\frac{1}{2} \times 5 = 2\frac{1}{2}]$

1. A cube has 8 faces. ()
2. $0.23 = 0.230$ ()
3. 1 cm is one tenth of a metre. ()
4. A floor map clearly shows the length, width and height of a house. ()
5. Length of a rectangle = Area \div breadth ()

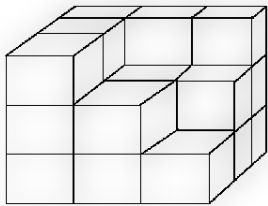
V. Do as directed. [1 X15= 15]

1. Find the volume of a cuboidal box of length 5m, width 3m and height 3m.



2. The weight of a five rupee coin is 9 grams. A bag of 5 rupee coins weighs 450 grams. How many coins does the bag have?

3. How many unit cubes are needed to arrange this model?

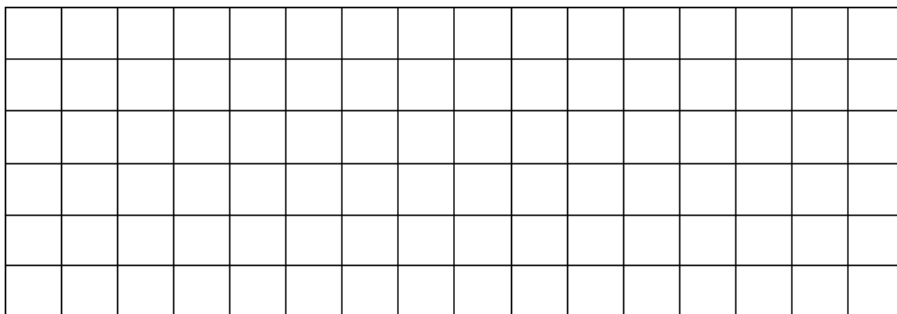


4. Multiply: 85×34

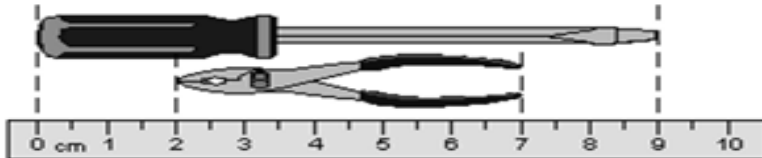
5. Divide: $567 \div 21$

6. Temperature of Goa on a particular day was 28.3°C . Temperature of Mumbai on the same day was 33°C . Find the difference between the temperatures of both the cities.

7. Draw a rectangle and a square of 20 cm perimeter each in the given square grid..



8. Observe the picture and answer.

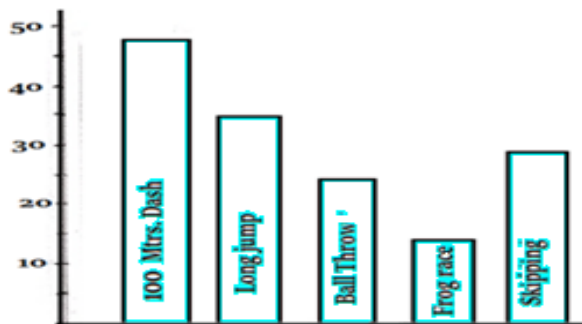


i. The screwdriver is _____ cm longer than the pliers.

ii. The total length of the screwdriver and pliers is _____ cm.

9. Smitha's aunt in Australia had sent her 10 Australian dollars as a birthday gift. She used 435 rupees for giving chocolates in the school. How much money was left with her? (1 Australian dollar = Rs 46.70)

10. The given bar chart shows the number of children who participated in 5 events on the sports day from class V. Observe carefully and answer .



i. In which event did the most number of children participate?

Ans: _____

ii) The number of children who participated in frog race is (more/less) _____ than the number of children who participated in long jump.

11. Ram Singh works 8 hours in a factory 5 days a week. He is paid Rs. 25 an hour. How much money does he earn in a week?

12. Aparna bought 378 rose plants. She wants to plant 12 plants in each row.

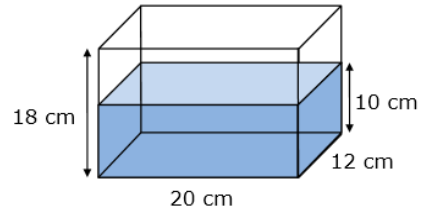
How many rows can she plant? How many plants are left ?

13. A rectangular tank 20cm long,12cm wide and 18 cm high is filled with water to a depth of 10 cm.

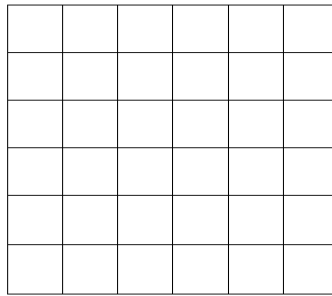
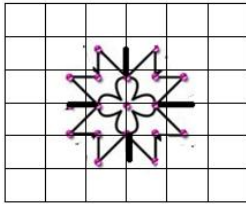
Find the volume of water in the tank in litres and millilitres .

(1 litre = 1000cu.cm)

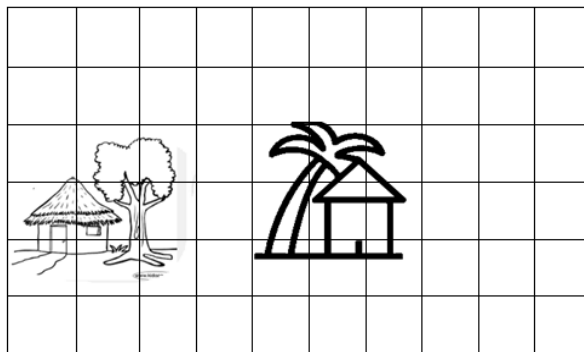
Ans:



14. Enlarge the given picture on the other grid without changing its shape. 1

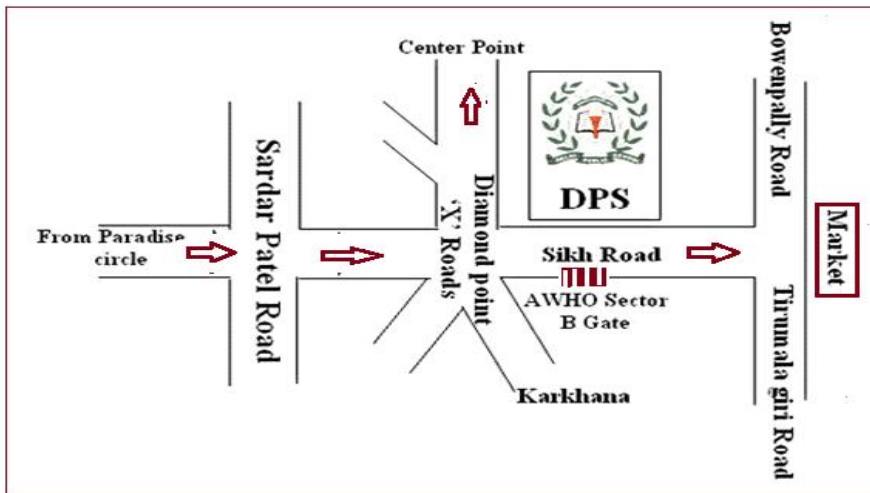


15. Divide the land into two equal parts, so that each part has a hut and a tree. (colour each piece of land differently)



Solve the following. [2x10=20]

1. Observe the route map and answer .



a. If you are going from paradise circle to **Center point** ,

you would cross _____ road and also take a _____ turn at Diamond point cross roads.

b. Bowenpally road is making a _____ angle with Titumalagiri road .

c. Name a pair of roads in the above map, that cut at right angles

2. Sonu's father asked Sonu and her brother Sam to draw a rectangle each of area 80 square cm. Sonu drew a rectangle of 16cm X 5cm. Sam drew a rectangle of 10cm X 8cm. Whose rectangle has the longer perimeter? By how much?

3. If 9 five rupee coins push up 10 ml of water, then

i. _____ five rupee coins push up 30 ml of water.

ii. 45 five rupee coins push up _____ ml of water.

4.i. How many rubrics cubes of side 4cm can be packed in a carton of size 16cmx8cmx10cm?

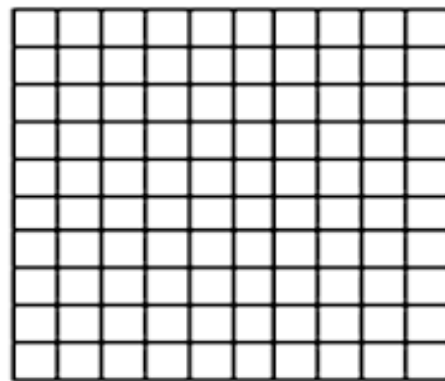
ii. How many cartons are required to pack 100 such rubrics cubes?

5. Raju made two different greetings cards. Observe the given table and complete .

Greeting card	Length	width	perimeter	Area
I	6cm			24sq.cm
II		12cm	48cm	

6) Colour the grid as follows.

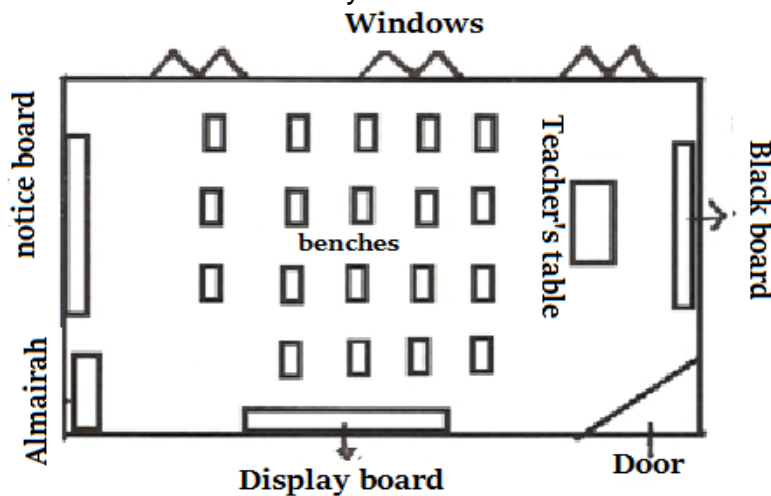
- a. red $\frac{32}{100}$ b. blue --- 0.08
 c. green- $\frac{2}{10}$ d. yellow --- 0.3



7) Look at the given floor map of a house. Make doors and windows on the deep drawing of this house. Are there any windows you couldn't show on the deep drawing? Circle them on the floor map.



8. All the class rooms in Ramya's school are like this.



Look carefully and answer.

- i) Tick (✓) the thing which is exactly opposite the black board.
 a. Display board b. Notice board c. Almirah
- ii) The display board is on the _____ side of the door.
- iii) There are _____ benches in the class room.
- iv) The windows are _____ side of the display board.

9. Raju dropped 8 marbles in a measuring jar containing water upto 60 ml. Then the water level increased up to 76ml. What would be the level of water when 12 more marbles are dropped into the same jar ?

10. Aravind stood on the road for one hour and counted the number of two wheelers passing by. He made tally marks for each one. Observe the tally marks given in the table and answer the following.

Two wheelers	Tally Marks
<u>Scoties</u>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Mopeds	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Motor Bikes	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Scoters	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

- a. How many two wheeler sin all did Aravind see on the road in one hour?
 Ans:
- b. i. Make tally marks for 6 more mopeds.
 ii. Scoties are double the number of scoters---True / false? tick.

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