

HALF YEARLY EXAMINATION, 2017-18

MATHEMATICS

Time : 3 hrs.

Class - V

M.M. : 80

Date – 22.09.2017 (Friday)

Name of the student _____ Section _____

General Instructions –

- This question paper comprises **four sections A, B, C and D.**
- **Section A** comprises **20** questions of **1** mark each, **all questions are compulsory.**
- **Section B** comprises **8** questions of **3** marks each, attempt any **6** questions.
- **Section C** comprises **8** questions of **4** marks each, attempt any **6** questions.
- **Section D** comprises **5** questions of **6** marks each, attempt any **3** questions.
- Draw neat figure wherever required.
- For all questions in section B, C and D show the calculation in fair.

SECTION-A

A.1 Fill in the blanks.

- The perimeter of a rectangle of length 14 cm and breadth 6cm is _____.
- $\frac{3}{4}$ of 24 balloons = _____ balloons.
- A _____ has unlimited lines of symmetry.
- An eight-sided closed figure is called _____.
- A rectangle made of 15 squares of side 1cm has area _____.


A.2 Match the following.

- | | |
|------------------|-------------------|
| a) 100 tens | i) 1 lakh |
| b) 10 lakhs | ii) 100 lakh |
| c) 1000 tens | iii) 1 ten lakh |
| d) 100 thousands | iv) 1 thousand |
| e) 1 crore | v) 1 ten thousand |

A.3 Choose the correct answer.

- i) What comes just after 999999
a) 10000 b) 1000000 c) 10000000 d) none of these
- ii) Half of straight angle = _____
a) 90° b) 45° c) 360° d) 60°
- iii) Figure which looks the same on $\frac{1}{6}$ turn will also look same on :
a) $\frac{1}{3}$ turn b) $\frac{1}{2}$ turn c) $\frac{1}{4}$ turn d) none of these
- iv) See the pattern and find what will come next ?

P, P, Q, _____

- a) P b) Q c)  d) none of these
- v) L shaped angles are called –
a) acute angle b) straight angle c) right angle d) obtuse angle

A.4 Answer the following questions -

- a) Write the number name for 18,60,851 in Indian system.
- b) Write any two letters which look same after half a turn.
- c) If 1 cm on the map shows 50 km on the ground then 25 km on the ground shows _____ cm on the map.
- d) Which device is used to construct angles?
- e) 6 hours is what part of a day?

SECTION – B (Attempt any 6 questions)

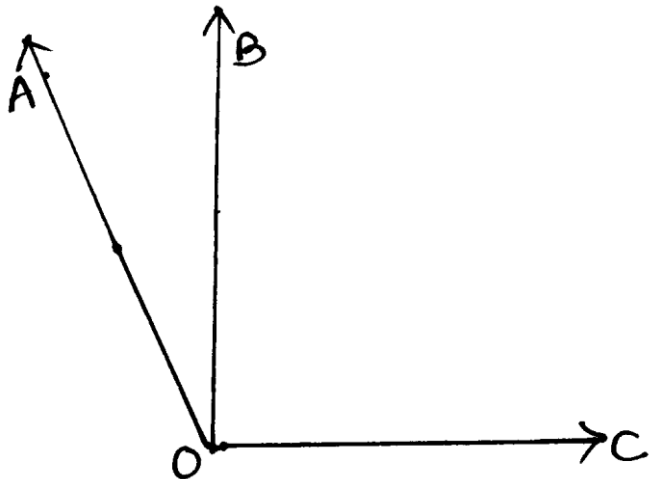
B.1 Find the area and perimeter of –

- a) A square with side 5 cm.
- b) A rectangle with length 7 cm and breadth 4 cm.

B.2 Draw any 3 shapes which looks the same after $\frac{1}{2}$ turn.

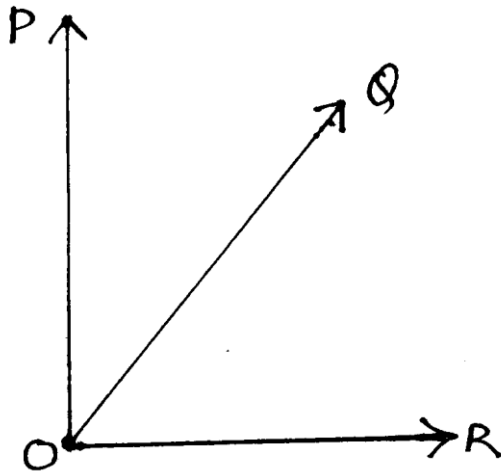
B.3 Calculate the degree measure of missing angles.

a)



$$\begin{aligned}\angle AOC &= 115^\circ \\ \angle BOC &= 90^\circ \\ \angle AOB &= \square\end{aligned}$$

b)



$$\begin{aligned}\angle POR &= 90^\circ \\ \angle POQ &= 40^\circ \\ \angle QOR &= \square\end{aligned}$$

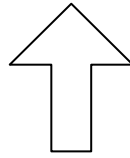
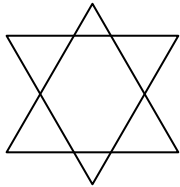
B.4 Vimla sells her grapes at Rs. 50 / kg. She dries the grapes to make raisins. Raisins are $\frac{1}{4}$ the weight of grapes. She sells the raisins for Rs. 240 per kg. Calculate :

- Cost of 2000 kg of grapes _____.
- She will get _____ kg of raisins from 32 kg of grapes.
- Cost of 70 kg of raisins is Rs. _____.

B.5 There are 24 caps out of which $\frac{1}{6}$ are green, $\frac{2}{3}$ are red and the rest are blue in colour.

- How many caps are green in colour?
- How many caps are red in colour?
- What part of caps are blue ?

B.6 Draw the shape showing rotation by :



- a) One-third turn b) One-quarter of a turn c) Half a turn


B.7 Draw the reflections of the following :

- a) **ENGLISH** b) **SCIENCE**

B.8 Continue the pattern after finding the rule -

a)  _____, _____

b)  _____, _____

c)  _____, _____

SECTION-C (Attempt any 6 questions)

C.1 Complete it :

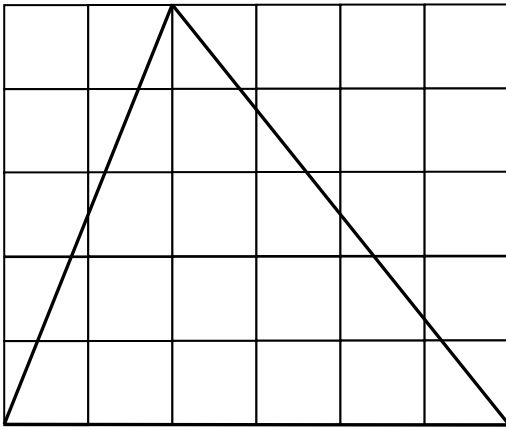
- a) 25 paise is _____ part of one rupee.
b) 20 paise is _____ part of one rupee.
c) 10 paise is _____ part of one rupee.
d) _____ 25 paise makes two rupees.

C.2 Name the kind of angle made by the hands of a clock at the following given time.

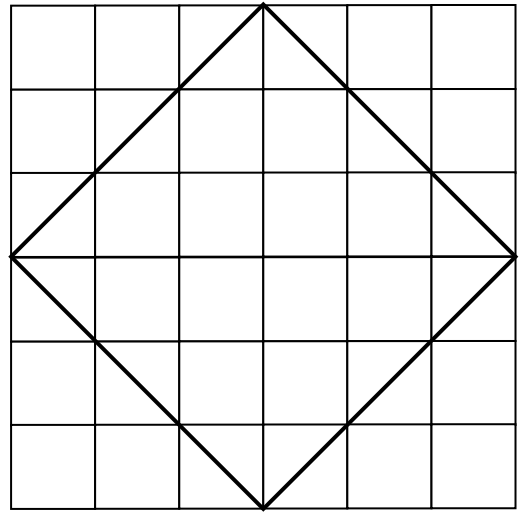
- a) 6 o'clock
b) 12:10
c) 9 o'clock
d) 11:30

C.3 Find the area of the given shape. (in square cm)

a)



b)



C.4 a) Fazila sold a king fish of 8 kg for Rs. 1200. At what price per kg did Fazila sell the fish?

b) Floramma sells prawns for Rs. 150 per kg. She has sold 15 kg prawns. How much money did she get for that?

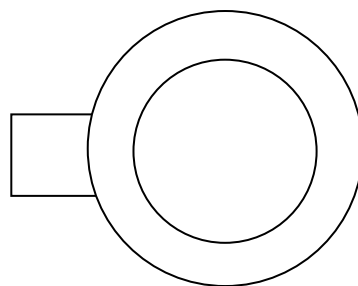
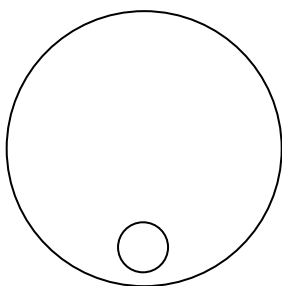
C.5 Convert the following numbers into palindromes-

a) 273 b) 78

C.6 Draw the following angles using protractor.

a) 155° b) 40°

C.7 Change the shapes given below in such a way that they look the same –



a) On $\frac{1}{3}$ turn

b) On $\frac{1}{2}$ turn

C.8 If 1 cm on map = 10 km on the ground then find out :

a) 10 cm on map = _____ km on the ground.

b) 15 km on the ground = _____ cm on the map.

SECTION-D (Attempt any 3 questions)

D.1 Look at the table and calculate :

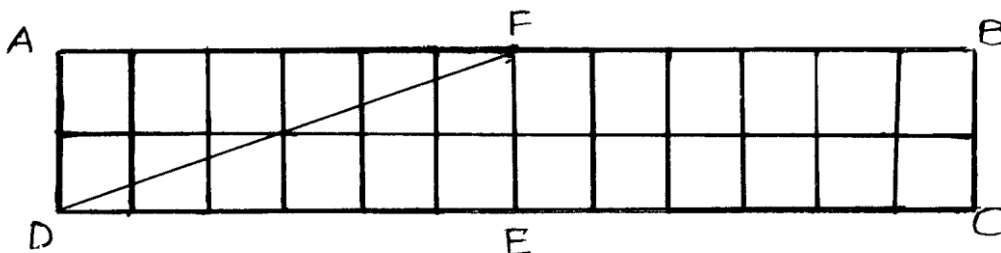
Type of Boat	Catch of fish in one trip (in kg)	Speed of boat in 1 hour
Log boat	20	4 km per hour
Long tail boat	600	12 km per hour
Motor boat	800	20 km per hour
Machine boat	6000	22 km per hour

- a) About how far can a motor boat go in 8 hours?
- b) If a long tail boat has to travel 84 km how long will it take?
- c) About how much fish in all will machine boat and log boat bring in 2 trips?

D.2 Find out how many degrees is the angle which is –

- a) $\frac{1}{2}$ of a right angle
- b) $\frac{1}{3}$ of a right angle
- c) 2 times of a right angle
- d) $\frac{3}{4}$ of straight angle
- e) $\frac{1}{3}$ of straight angle
- f) Twice of straight angle

D.3



- a) What is the area of the rectangle ABCD?
- b) Find the perimeter of rectangle BCEF?
- c) What is the area of triangle DEF?

D.4 Look at the list of a grocer's shop and find the value of -

Rate List	
Items	Price of 1 kg
i) Potato	Rs. 10/-
ii) Onion	Rs. 16/-
iii) Carrot	Rs. 18/-
iv) Gourd	Rs. 8/-
v) Tomato	Rs. 12/-

- a) How much does $4\frac{1}{2}$ kg of potato cost?
- b) What will be the cost of $1\frac{1}{4}$ kg of gourd?
- c) Ratan wants $3\frac{1}{2}$ kg of onion. How much will it cost?

D.5 Fill in the blanks.

- a) $3075 \times 100 = \underline{\hspace{2cm}}$
- b) $80543 \div 1000$; Q = $\underline{\hspace{2cm}}$ R = $\underline{\hspace{2cm}}$
- c) $543 + 147 = 147 + \underline{\hspace{2cm}}$
- d) $44 \times 5 = (40 + 4) \times \underline{\hspace{2cm}}$
- e) 3,20,45,659 $\underline{\hspace{1cm}}$ 3,20,46,659. (Use <, > or =)
- f) The place value of 6 in 8,60,34,172, is $\underline{\hspace{2cm}}$.

