

NEW - ERA PUBLIC SCHOOLCLASS :- 7th

SUBJECT :- MATHEMATICS

UNIT :- 3rd - (2021)

M. MARKS :- 20

LONG - TYPE QUESTIONSAttempt any two (2) Questions :-

Q1:→ A carpet measures 24m by 16m. A strip of 2m wide is cut from it all around. Find the area of the remaining carpet and also the area of the strip cut out.

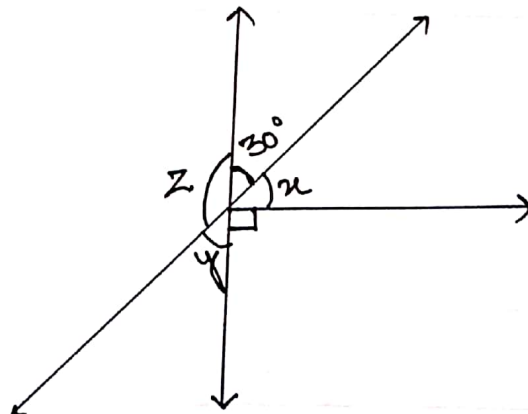
Q2:→ In a parallelogram, the length of the altitude is twice the length of the base. Its area is 450 sq. cm. Find the length of the base and of the altitude.

Q3:→ A circus tent has a radius of 30m. The ring at its centre for the performance is of 10m of radius. Find the area left for the audience. (Take $\pi = 3.14$)
→ $(2 \times 3 = 6)$.

SHORT - TYPE QUESTIONSAttempt any four (4) Questions :-

Q1:→ Two Complementary angles are such that the measure of one is twice the measure of the other. Find the measures of the angles.

Q2:→ Find the value of x , y and z in the given figure.



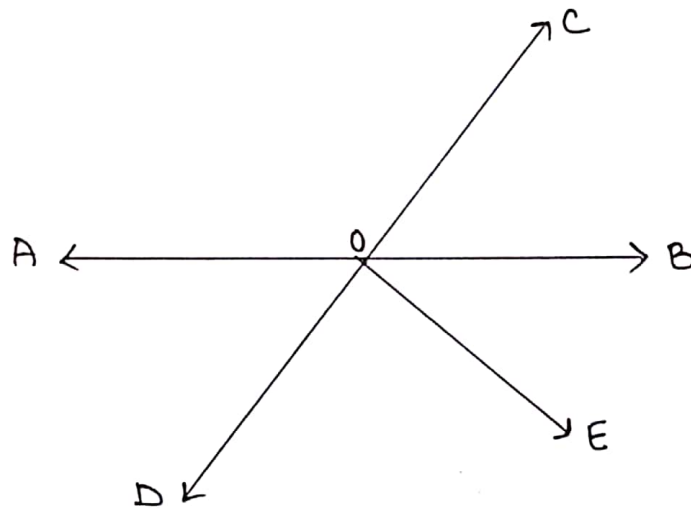
(2)

Q3:→ find the circumference of the circle of diameter 21cm.
(Take $\pi = 3.14$).

Q4:→ find the area of Triangle whose base is 30cm long
and the corresponding altitude is 8cm long.

Q5:→ Name the angles:-

- Adjacent to $\angle AOD$.
- Vertically opposite to $\angle DOB$.



→ $(2 \times 4 = 8)$

Q:→ Fill in the blanks (Compulsory Question)

- Complement of 60° is _____
- Perimeter of equilateral triangle is _____
- The angles having common arm and a common vertex are called _____
- A pair of adjacent angles whose sum is a straight line (180°) is called _____
- When the sum of two angles is equal to 90° , the angles are called _____
- If diameter is 12cm, then radius is _____

→ $(6 \times 1 = 6)$

Good - luck