minutes and pipes Q and R together can fill the

E. None of these R→. + 9 hi tank.

1131 = 1- 35 = 1

y = 180 (5)

tank in 30 minutes and pipe Q alone can fill 12.5% of the tank in 5 minutes. Find the time taken by pipes P and R together to fill the

tank?

A.30 minutes

C.15 minutes

T. Imin

B.40 minutes

D.15

E. None of these

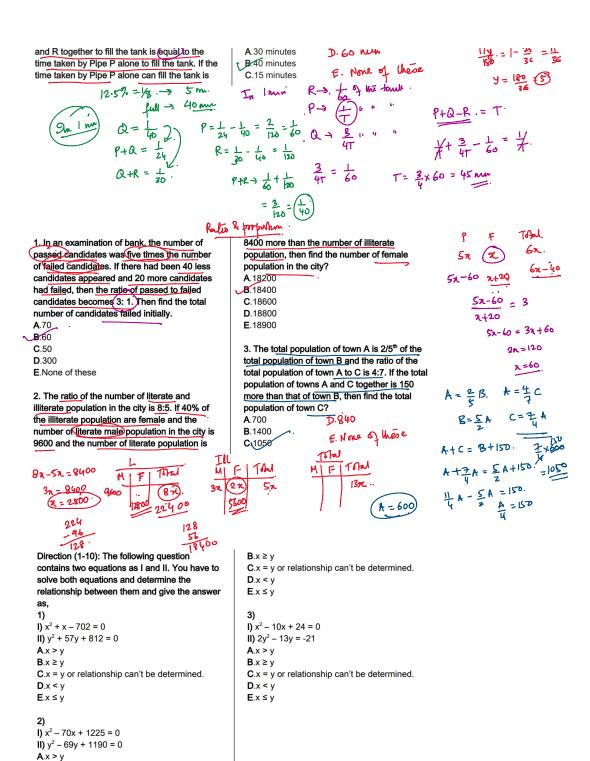
2) Pipe P and Q are inlet pipes and Pipe R is an outlet pipe. The time taken by Pipe P, Q

and R together to fill the tank is equal to the

time taken by Pipe P alone to fill the tank. If the

12.5% =1/2 .-> 5 m.

time taken by Pipe P alone can fill the tank is



1. If the ratio of the side of the cube to side of the square is 1:2 and the ratio of the length of the rectangle to breadth of the rectangle is 5:4 and the area of the rectangle is $80 \, \text{cm}^2$. If the perimeter of the rectangle is equal to the area of the square, then find the volume of the cube?

A.64cm³

B.8cm³

C.25cm3

D.27cm³

E.None of these

2. The ratio of the radius of the cylinder and radius of the sphere is 1:2 and the height of the cylinder is 14cm. If the curved surface area of the cylinder is 616cm², then what is the difference between the numerical value of volume of the cylinder and the surface area of the sphere?

A.308

B.402

C.317

D.423

E.None of these

- 3. If the length of the cuboid is increased by 30%, height of the cuboid is increased by 10% and the breadth of the cuboid is decreased by 40%. Thenfind how much % does the volume will be increased or decreased by?
- A.14.2% increased

B.12.5% decreased

C.8.2% increased

D.13.6% decreased

E.None of these

4. The circumference of a circle is one-third of the perimeter of a rectangle. The area of the circle is 2464 sq. m. What is the area of the rectangle, if the breadth of the rectangle is 120 m?

A.18560 sq. m

B.17280 sq. m

C.16720 sq. m

D.19340 sq. m

E.None of these