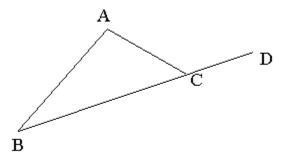
1. $3x + y = 19$, and $x + 3y = 1$. Find the value of $2x + 2y$
A. 20
© B. 18
© C. 11
O. 11 D. 10
© E. 5
 2. The price of a cycle is reduced by 25 per cent. The new price is reduced by a further 20 per cent. The two reductions together are equal to a single reduction of A. 45% B. 40% C. 35% D. 32.5% E. 30%
 3. x and y are integers x + y < 11, and x > 6 What is the smallest possible value of x - y? A. 1 B. 2 C. 4 D2 E4 4. If x5y4z2 <0, which of the following must be true?
Select ALL such statements.
☐ A. xy < 0
□ B. yz < 0 □ C. xz < 0
$\Box \text{D. } x < 0$
_
E. x5 < 0



(figure not to scale)

5. BCD is a line segment and Angle BAC = 1/4 Angle ACB; Angle ACD = ?

A. 140

[○] B. 100

C. 120

D. 60

© E. it cannot be determined from the information given

6. If $x = y = (x + y)^2 - (x - y)^2$

Then $\sqrt{5} \approx \sqrt{5} =$

C A. 0

○ B.5

C. 10

O D. 15

C E. 20

7. In a certain village, m litres of water are required per household per month. At this rate, if there are n households in the village, how long (in months) will p litres of water last?

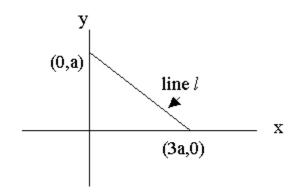
A. p/mn

B. mn / p

C. mp / n

O. np/m

○ E. npm

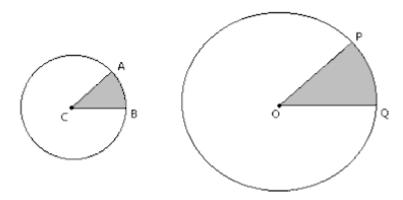


8. In the figure below, what is the slope of line I?

- O A 3
- ^O B. 1/3
- C. 0
- D. 1/3
- E.3

9. What digit appears in the units place in the number obtained when 2320 is multiplied out?

- A. 0
- B. 2
- C. 4
- D. 6
- C E.8



10. Radius of circle center O is 3 times the radius of circle center C. Angle ACB = Angle POQ

If the shaded area of circle C is 2 then what is the area of the shaded part of circle O?

- ^O A. 6
- B. 12
- ° C. 18

Answer Key

- 1. D
- 2. B
- 3. C
- 4. DE
- 5. E
- 6. E
- 7. A
- 8. B
- 9. D
- 10. C