

CSS-2022 Q# 8(d)

BROTHER coded as QGSNQA

Write SISTER?

A B C D E F G H I J K L M N O

P Q R S T U V W X Y Z

B R O T H E R → A  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
Q D G S N Q

S I S T E R → Q  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
R H R S D

CSS-2022, Q# 7 (B)

Find missing numbers.

a) 4, 16, 36, 64, ?, 144

$$(2)^2 = 4$$

$$(4)^2 = 16$$

$$(6)^2 = 36$$

$$(8)^2 = 64$$

$$(10)^2 = 100$$

$$(12)^2 = 144$$

→ 4, 16, 36, 64, 100, 144 Ans

b) 30, 29, 27, ?, 20, 15

$$30 - 1 = 29$$

$$29 - 2 = 27$$

$$27 - 3 = 24$$

$$24 - 4 = 20$$

$$20 - 5 = 15$$

So → 30, 29, 27, 24, 20, 15 Ans

Next  
class

Mean

Average

Median

Mode

Range

Probability

$\frac{27}{24}$

24

c) 1, 7, 15, 25, ?, 51

$$7 - 1 = 6$$

$$15 - 7 = 8$$

$$25 - 15 = 10$$

$$\text{If } 12 + 25 \Rightarrow 37$$

$$\text{Then, } 37 - 25 \Rightarrow 12$$

$$\text{Similarly, } 51 - 37 = 14$$

So, 1, 7, 15, 25, 37, 51

d) 0, 2, 6, 12, 20, 30, ?

$$2 - 0 = 2$$

$$6 - 2 = 4$$

$$12 - 6 = 6$$

$$20 - 12 = 8$$

$$30 - 20 = 10$$

By adding 12 in 30, we get 42.

$$42 - 30 = 12$$

So  $\Rightarrow$  0, 2, 6, 12, 20, 30, 42.

e) 48, 24, 72, 36, 108, ?

$$\div 2$$

$$\times 3$$

$$\div 2$$

$$\times 3$$

$$48 \div 2 = 24$$

$$24 \times 3 = 72$$

$$72 \div 2 = 36$$

$$36 \times 3 = 108$$

So, by multiplying 108 with 2,

~~we~~ we will get:-

$$\begin{array}{r} 108 \\ 2 \\ \hline 216 \end{array}$$

$\Rightarrow$  48, 24, 72, 36, 108, 216 Ans.

$$\frac{624}{72}$$

$$\frac{636}{108}$$

CSS 2023, Q # 6 (B)

a) 1, 8, 4, 27, 9,    ?

$$8 \div 4 = 2$$

$$27 \div 9 = 3$$

b) 3, 6, 8, 16, 18,    ?

$$6 - 3 = 3$$

$$8 - 6 = 2$$

$$16 - 8 = 8$$

$$18 - 16 = 2$$

3, 6, 8, 16, 18, 26 Ans.

d) 81, 9, 64, 8,    ?, 12

$$(9)^2 = 81$$

$$(8)^2 = 64$$

$$(12)^2 = 144$$

So  $\Rightarrow$  81, 9, 64, 8, 144, 12

c) 2, 8, 512,    ?

$$(2)^3 = 8$$

$$(8)^3 = 512$$

$$(512)^3 = 1536$$

$\Rightarrow$  2, 8, 512, 1536.

e) 6, 11, 21, 36, 56, ?

$$11 - 6 = 5$$

$$21 - 11 = 10$$

$$36 - 21 = 15$$

$$56 - 36 = 20$$

$\Rightarrow 6, 11, 21, 36, 56, \underline{81}$

By adding 25 in 56, we get

$$56 + 25 = 81$$

$$\text{So, } 81 - 56 = 25$$

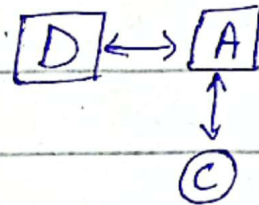
CSS 2017, Q # 7(D)

A told B that C is his father's nephew.

D is A's cousin but not brother of C.

What is relationship there between A

D and C?



C = father's  $\Rightarrow$  A's cousin  
nephew

D = A's cousin  $\Rightarrow$  not brother  
of C.

~~May be, D is sister of~~

May be, D is sister of C.