

- B** 360
C 1440
D 540
E None of these

Answer: C

Explanation:

There are 7 letters in the word 'DRASTIC' including 2 vowels (A,I) and 5 consonants (D,R,S,T,C).

Considering the two vowels as 1 letter, we have 6 letters which can be arranged in $6!$ ways

But corresponding to each way of these arrangements, the vowels can be put together in $2!$ ways.

Hence, required number of words = $6! \times 2!$

= $720 \times 2 = 1440$

Question 6

Which of the following set of fractions is in ascending order ?

- A** $13/15, 11/13, 7/8, 8/9$
B $11/13, 13/15, 7/8, 8/9$
C $8/9, 7/8, 13/15, 11/13$
D $7/8, 8/9, 11/13, 13/15$
E None of these

Answer: B

Explanation:

Decimal equivalent of :

$$\frac{13}{15} = 0.87$$

$$\frac{11}{13} = 0.85$$

$$\frac{7}{8} = 0.875$$

$$\frac{8}{9} = 0.89$$

Clearly, $0.85 < 0.87 < 0.875 < 0.89$

$$\Rightarrow \frac{11}{13} < \frac{13}{15} < \frac{7}{8} < \frac{8}{9}$$

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Question 7

Certain number of pieces of an article are to be packed in boxes, such that each box contains 145 pieces. If after packing them in 32 boxes 25 pieces are left out, what was the number of pieces to be packed ?

- A** 4566
B 4655
C 4465
D 4640

- A 640
- B 720
- C 1440
- D 360
- E None of these

Answer: B

Explanation:

There are 6 different letters in the word POWERS .
The can be arranged in $6!$ ways = 720

Question 17

What would be the area of a circle whose diameter is 35 cms ' ?

- A 962.5 sq.cm.
- B 875.5 sq.cm.
- C 981.5 sq. cm .
- D 886.5 sq.cm.
- E None of these

Answer: A

Explanation:

We know that, $Area = \frac{\pi d^2}{4}$
 $= \frac{3.14 \times 35^2}{4}$
 $= 962.5 sq.cm$

Option A is the correct answer.

Question 18

In how many different ways can the letters of word 'REMAKE' be arranged ?

- A 720
- B 130
- C 360
- D 180
- E None of these

Answer: C

Explanation:

The total number of alphabets in the word REMAKE is 6.

So the word can be rearranged in $6!$ ways.

But the alphabet "E" appears twice in the word.

Hence the word can be rearranged only in $\frac{6!}{2!}$ ways.

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