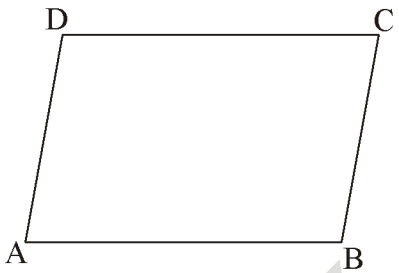
ANSWER KEY AND SOLUTIONS

SECTION – A : MATHEMATICS

1. (B)

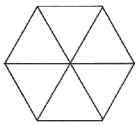


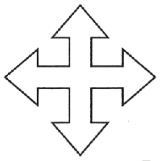
For the given quadrilateral possible names are :

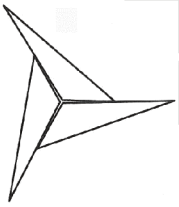
CDAB, DABC, ABCD, BCDA, CBAD, BADC, ADCB, DCBA

2. (A)

For the given shapes correct match is as follows :

(P)  (iii) $\frac{1}{6}$ turn

(Q)  (i) $\frac{1}{4}$ turn

(R)  (ii) $\frac{1}{3}$ turn

Then correct answer will be P $\rightarrow$ (iii), Q $\rightarrow$ (i), R $\rightarrow$ (ii).

3. (B)

(i) 1, 2, 4, 8 and 16 are the only factors of 16 – False

(ii) 1 is a factor of all numbers – True

(iii) 56 is a multiple of both 7 and 8 – True

(iv) 9 is a factor of both 45 and 80 – False

4. (B)

Given

$l = 11$ cm

b = 5 cm

h = 2 cm

and gi ven shape is cuboid

$\therefore$ Volume of cuboid

$= l \times b \times h$

$= 11 \times 5 \times 2$ cm^3

$= 110$ cm^3

5. (C)

Given figure is cube and side = 30 cm.

Volume = (side)^3

$= 30 \times 30 \times 30$ cm^3

$= 27000$ cm^3

SECTION – B : SCIENCE

6. (B) Food energy

7. (C) The lack of vitamin A in our body causes the disease, night blindness.

8. (B) Dogs, cats and bears are examples of mammals.

SECTION – C : LOGICAL REASONING & IQ

9. **(A)**

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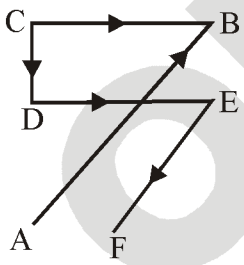
10. **(D)**



MATRIX OLYMPIAD