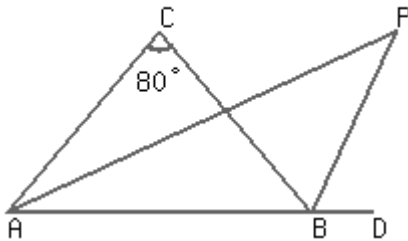


Answer the questions

- (1) A cow is tied to a pole in a grass field using a rope which is 1.4 meters long. Find the area where cow can graze the grass. (assume $\pi = \frac{22}{7}$).

- (2) AP and BP are bisectors of $\angle CAB$ and $\angle CBD$, respectively. Find $\angle APB$.



- (3) Paulina is reading a book titled 'The World Around Us', and this book has 232 pages. Paulina manages to read $\frac{1}{29}$ of the book every day. After 4 days, how many pages has she read?
- (4) An express train from Milan to London runs every 4th day. If the train went on Saturday, after how many days will the train run on a Sunday?
- (5) Simplify the following and write the answer in the exponential form.

A) $\frac{49^9}{343^9} \times 49^6 \times 7^6 \times 343^9$

B) $\frac{3^7}{3^5 \times 9^3} \times 27^9$

C) $\frac{9^8 \times 9^5 \times 3^8 \times 9^3 \times 27^4}{3^9 \times 3^9 \times 27^3} \times 3^3$

D) $\frac{4^5 \times 4^7 \times 2^5 \times 4^6 \times 2^3 \times 2^8 \times 4^4 \times 4^9 \times 4^5 \times 2^5 \times 8^3}{4^9} \times 8^2$

(6) Find the value of $\frac{3}{4} + \frac{(\frac{1}{2} - \frac{1}{3}) \times 12}{5 - \frac{1}{2}}$.

- (7) Subtract $8b - 8$ from the sum of $6b^2 - b + 7$ and $-3b^2 - 2b$.

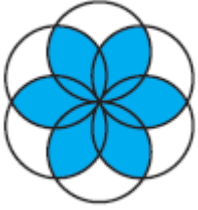
- (8) If one of the exterior angles of a triangle is 100° and the interior opposite angles are in the ratio 1:4. Find all the angles of the triangle.

- (9) If each side of a cube is doubled, find the factor by which surface area of the cube will change.

- (10) What is the radius of a circle if the area of the circle is 2289.06 (assume that the value of π is 3.14)?

(11) When 16 is added to 20 % of a number, it gives the number itself. Find the number.

(12) What is the order of rotational symmetry in the given image ?



(13) Find the greatest n digit number.

Choose correct answer(s) from the given choices

(14) Solve the following:

A) $840.14 - \underline{\hspace{2cm}} = 86.36$

- a. 753.95 b. 761.37
c. 753.78 d. 753.72

B) $\underline{\hspace{2cm}} - 226.21 = 98.01$

- a. 324.14 b. 326.18
c. 333.7 d. 324.22

C) $342.18 - \underline{\hspace{2cm}} = 5.5$

- a. 336.68 b. 337.08
c. 336.05 d. 336.49

D) $\underline{\hspace{2cm}} - 259.91 = 72.28$

- a. 339.28 b. 332.11
c. 331.1 d. 332.19

Check True/False

(15) Every negative number is greater than every natural number.

- ☐ True ☐ False
