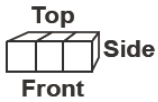


Class: 7
Subject: Mathematics
Topic: ASK1507SUPER01
No. of Questions: 30

Q1. The figure given below is made of 3 small cubes.



Which best shows the side view of the figure?

(A)



(B)



(C)



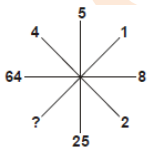
(D)



Sol.

(A)

Q2. Insert the missing character.



(A) 1

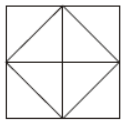
(B) 3

(C) 2

(D) 4

Sol. (A)

Q3. Count the number of triangles in the following figure.



- (A) 8
- (B) 10
- (C) 12
- (D) 14

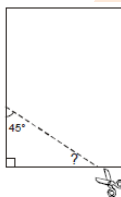
Sol. (C)

Q4. Which shows 833, 000 written in scientific notation?

- (A) 8.33×10^3
- (B) 8.33×10^4
- (C) 8.33×10^5
- (D) 8.33×10^6

Sol. (C)

Q5. Nina made a triangle by cutting the corner of a sheet of paper. One angle is 45° . What is the measure of the third angle of Nina's triangle?



- (A) 30°
- (B) 45°
- (C) 55°
- (D) 60°

Sol. (B)

Q6. What is the prime factorization of 45?

- (A) $2^2 \times 5$
- (B) $3^2 \times 5$
- (C) $5^2 \times 3$
- (D) $5^2 \times 9$

Sol. (B)

Q7. Which of the following shows the next step using the least common denominator to simplify $\frac{7}{8} - \frac{5}{6}$?

- (A) $\left(\frac{7}{8} \times \frac{3}{3}\right) - \left(\frac{5}{6} \times \frac{4}{4}\right)$
- (B) $\left(\frac{7}{8} \times \frac{4}{4}\right) - \left(\frac{5}{6} \times \frac{3}{3}\right)$
- (C) $\left(\frac{7}{8} \times \frac{5}{5}\right) - \left(\frac{5}{6} \times \frac{7}{7}\right)$
- (D) $\left(\frac{7}{8} \times \frac{7}{7}\right) - \left(\frac{5}{6} \times \frac{5}{5}\right)$

Sol. (A)

Q8. Ram can throw a ball $50\frac{3}{5}$ metres high. Shyam can throw the same ball $48\frac{1}{3}$ metres high. How much farther can Ram throw the ball than Shyam?

- (A) $2\frac{2}{15}m$
- (B) $2\frac{4}{15}m$
- (C) $2\frac{3}{5}m$
- (D) $2\frac{4}{5}m$

Sol. (B)

Q9. In a parking lot, 1 out of every 8 cars is blue. What percent of the cars in this lot are blue?

- (A) 1.25 %
- (B) 7%
- (C) 9%
- (D) 12.5%

Sol. (D)

Q10. A duck flew at 18 km per hour for 3 hours, then at 15 km per hour for 2 hours. How far did the duck fly in all?

- (A) 69 km
- (B) 75 km
- (C) 81 km
- (D) 84 km

Sol. (D)

Q11. What is the difference between 8 metres square and 8 square metres?

- (A) 0
- (B) 8 sq. m
- (C) 56 sq. m
- (D) 64 sq. m

Sol. (C)

Q12. Which of the following is the value of $\frac{3}{7} - \frac{9}{14} + \frac{13}{21}$?

- (A) $\frac{-17}{42}$
- (B) $\frac{17}{42}$
- (C) $\frac{19}{42}$
- (D) $\frac{-19}{42}$

Sol. (B)

Q13. Monika has 63 pens with her. Sonika has $\left(\frac{1}{7}\right)^{th}$ of the number of pens that Monika has. Sonika has _____.

- (A) 7 pens
- (B) 8 pens
- (C) 9 pens
- (D) 12 pens

Sol. (C)

Q14. One of the exterior angles of a triangle is 140° and the interior opposite angles are in the ratio 2: 5. These interior angles are _____.

- (A) $30^\circ, 75^\circ$
- (B) $36^\circ, 90^\circ$
- (C) $40^\circ, 100^\circ$
- (D) $35^\circ, 105^\circ$

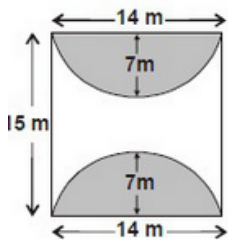
Sol. (C)

Q15. Which of the following expressions is correct?

- (A) $\frac{ab+c}{b} = a + c$
- (B) $\frac{a+c}{a+c} = \frac{b}{c}$
- (C) $\frac{ab+ac}{ad} = \frac{b+c}{d}$
- (D) $\frac{(a+c)}{a+d} = \frac{b+c}{d}$

Sol. (C)

Q16. In the given figure, plantation has been done in two semi-circular shaded portions in a rectangular field. The area of the remaining part is _____.



- (A) $56 m^2$
- (B) $65 m^2$
- (C) $49 m^2$
- (D) $32 m^2$

Sol. (A)

Q17. The sum of 7 numbers is 133. If one more number is added, the mean of the numbers is 20. The added number is ____.

- (A) 20
- (B) 19
- (C) 23
- (D) 27

Sol. (D)

Q18. A cake contains 38% flour, 14% cream, 23% egg and rest of the percentage sugar. If cake is of 1.5 kg, the amount of sugar in it is ____.

- (A) 250 gms
- (B) 325 gms
- (C) 375 gms
- (D) 450 gms

Sol. (C)

Q19. The given graph shows how much water is used at Jiah's home. If Jiah's family used 1800 litres of water each day, what is the total litres of water used in the kitchen each day? (Figure is not drawn to scale.)



- (A) 90 litres
- (B) 180 litres
- (C) 900 litres
- (D) 1800 litres

Sol. (A)

Q20. A student was asked to solve the fraction $\frac{\frac{7}{3} + 1\frac{1}{2} \text{ of } \frac{5}{3}}{2 + 1\frac{2}{3}}$ and his answer was $\frac{1}{4}$. By how much was

his answer wrong?

- (A) 1

- (B) $\frac{1}{55}$
- (C) $\frac{1}{220}$
- (D) None of these

Sol. (D)

Q21. If y is an integer, which of following must be an odd integer?

- (A) $52y^2 + 3$
- (B) $3y$
- (C) $y^2 + 3$
- (D) $3y + 52$

Sol. (A)

$$52y^2 + 3$$

Q22. The number of days left in the month on November are double of the number of day already passed. How many days are left in the month?

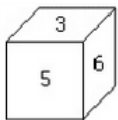
- (A) 22 days
- (B) 18 days
- (C) 20 days
- (D) 24 days

Sol. (C)

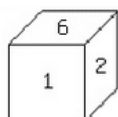
20 days

Q23. A die has numbers 1 to 6, such that sun of opposite faces are always 7. Which is the correct view of die?

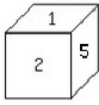
(A)



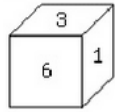
(B)



(C)

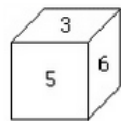


(D)



Sol.

(A)



Q24. If radius of a circle is doubled, what would be the ratio of new diameter to new circumference?

- (A) 2π
- (B) $\pi + 2$
- (C) π
- (D) $\frac{\pi}{2}$

Sol.

(C)

π

Q25. 10% of 50% of 800 =?

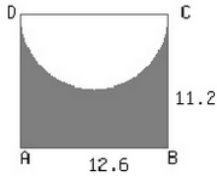
- (A) 40
- (B) 36
- (C) 32
- (D) 48

Sol.

(A)

40

Q26. If ABCD is a rectangle, find area of the shaded region (All dimension are in m, and assume $\pi = \frac{22}{7}$).



- (A) 74.75 m^2
- (B) 76.75 m^2
- (C) 78.75 m^2
- (D) 81.75 m^2

Sol. (C)

78.75 m^2

Q27. If radius of a wheel of a bike is 39.9 cm. If wheel makes 4000 rotation in one minute, how far will bike travel in 80 minutes? (assume $\pi = 22/7$)

- (A) 802.56 km
- (B) 642.04 km
- (C) 882.82 km
- (D) 722.3 km

Sol. (A)

802.56 km

Q28.

$$\spadesuit\spadesuit = \diamondsuit\spadesuit\diamondsuit, \spadesuit\diamondsuit = \bullet\bullet, \spadesuit = 10$$

Based on above conditions, which of the following statements is true?

(A)

$$\diamondsuit > \bullet$$

(B)



(C)



(D)




Sol. (D)



Q29.

$$\text{cloud} + \text{heart} = 20 \quad \text{cloud} > 9 \quad \text{cloud} < 11$$

Find value of 

- (A) 12
- (B) 9
- (C) 8
- (D) 10

Sol. (D)

10

Q30. Saina plays football every 4th day. If she played football on Tuesday, after how many days will she play football again on a Friday?

- (A) 23 days
- (B) 20 days
- (C) 26 days

(D) 24 days

Sol. (D)

24 days

askITians