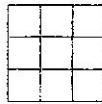


Vikas Bharati Public School
Class VII (Session: 2017-2018)
Subject – Mathematics
Holiday Homework

Study the figures and answer the questions.

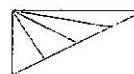
1. How many squares are there in the Fig. ?
 (a) 10 (b) 16
 (c) 14 (d) 18



2. The no. of squares in the Fig. is
 (a) 17 (b) 12 (c) 15 (d) 13



3. How many triangles are there in the Fig. ?
 (a) 4 (b) 5 (c) 6 (d) 10

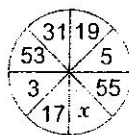


Select the correct option in each question.

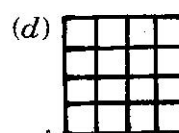
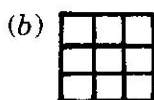
4. The value of x in the given puzzle is
 (a) 0 (b) 5
 (c) 3 (d) 2

2	15	5	18	7	14
6		4		x	
27		38		35	

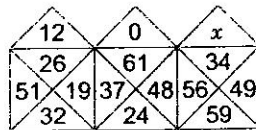
5. The value of x in the given puzzle is
 (a) 29 (b) 41
 (c) 23 (d) 47



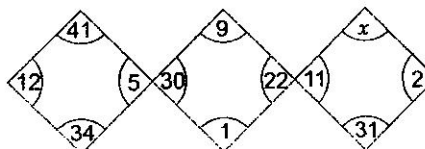
6. Which of the following has greatest no. of squares ?



7. What is the value of x ?
 (a) 29 (b) 12
 (c) 0 (d) 8



8. What is the value of x ?
 (a) 9 (b) 23
 (c) 17 (d) 40



9. Three positions of a die are given. The number on the face opposite to 6 is
 (a) 3 (b) 5
 (c) 1 (d) 4





10. The value of $10 + (-10) + 10 + (-10) + \dots$ (upto 11 terms) is
 (a) -10 (b) 10 (c) 0 (d) 110


Choose the correct option.


11. If 'NAME' is coded as '5291', then 'MAN' is coded as
 (a) 952 (b) 1925 (c) 925 (d) 9251
12. If 'BOOK' is written as 'DQQM' in coded form, then 'HAND' will be coded as
 (a) IBPF (b) JCPF (c) KCPT (d) RPFC
13. If AR = 15 and BAR = 30, then CAR =
 (a) 60 (b) 50 (c) 90 (d) 45

14. In the Fig. given below, which toy is cheaper than the average price of all toys?

(a)  Price = ₹ 324

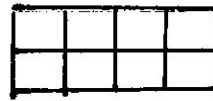
(b)  Price = ₹ 338

(c)  Price = ₹ 340

(d)  Price = ₹ 345

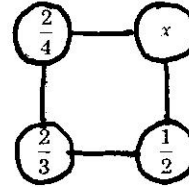
15. The no. of right angles in the Fig. is

- (a) 8 (b) 20
 (c) 32 (d) 24



16. If the product of fractions on each side of the adjoining square is equal, the value of x is

- (a) $\frac{2}{5}$ (b) $\frac{1}{3}$ (c) $\frac{4}{9}$ (d) $\frac{4}{6}$



17. The difference between the greatest, and smallest numbers in $\frac{-4}{7}$, $\frac{-6}{7}$, $\frac{-3}{7}$ and $\frac{-2}{7}$ is

- (a) $\frac{-3}{7}$ (b) $\frac{2}{7}$ (c) 1 (d) $\frac{4}{7}$

18. How many ice-cream cones can be made from 5 kg box of ice-cream, if each ice-cream cone takes 125 g of ice-cream?

- (a) 36 (b) 25 (c) 20 (d) 40

19. Which of the following nets matches with cylinder?

(a) 

(b) 

(c) 

(d) 

20. The value of $|-69| + |-31|$ is

- (a) 50 (b) -38 (c) 100 (d) -100

Vikas Bharati Public School
Class VII (Session 2017 – 2018)
Subject – Mathematics
Rational Numbers

Tick the correct option.

1. A rational number is defined as a number that can be expressed in the form $\frac{p}{q}$, where p and q are integers and

- (a) $q=0$ (b) $q = 1$ (c) $q = 1$ (d) $q = 0$

2. In the standard form of a rational number, the common factor of numerator and denominator is always:

- (a) 0 (b) 1 (c) -2 (d) 2

3. Which of the following rational numbers is equal to its reciprocal?

- (a) 1 (b) 2 (c) $\frac{1}{2}$ (d) 0

4. The standard form of $\frac{-48}{60}$ is:

- (a) $\frac{48}{60}$ (b) $\frac{-60}{48}$ (c) $\frac{-4}{5}$ (d) $\frac{-4}{-5}$

5. How many rational numbers are there between two rational numbers?

- (a) 1 (b) 0 (c) 100 (d) unlimited

6. To reduce a rational number to its standard form, we divide its numerator and denominator by their

- (a) LCM (b) HCF (c) product (d) multiple

7. Which of the following rational numbers is negative?

- (a) $\frac{-(-3)}{7}$ (b) $\frac{-5}{-8}$ (c) $\frac{9}{8}$ (d) $\frac{3}{-7}$

Fill in the blanks.

1. $\frac{-3}{8}$ is a _____ rational number.
2. $\frac{-1}{2}$ is _____ than $\frac{1}{5}$.
3. $\frac{-27}{45}$ and $\frac{-3}{5}$ represent _____ rational numbers.
4. Additive inverse of $\frac{2}{3}$ is _____.
5. The reciprocal of $\frac{-9}{7}$ is _____.

Fill in the boxes to make the following statements true.

1. $\frac{-3}{5} + \frac{2}{5} = \square$
2. $\frac{-5}{6} + \frac{(-1)}{6} = \square$
3. $\frac{-6}{7} = \frac{\quad}{42}$
4. $\frac{7}{-8} \square \frac{8}{9}$
5. $\frac{5}{6} \square \frac{8}{4}$
6. $\frac{-3}{5} \times 7 = \square$
7. $\frac{-6}{5} \times (-2) = \square$
8. $\frac{4}{9} + \frac{-5}{7} = \square$
9. $\frac{3}{7} \times \square = \frac{-6}{35}$
10. $\frac{4}{-7} \times \square = 1$