



Holiday Homework - 2024-25

Immerse yourself in the wonders of the world this summer. From breathtaking landscapes to vibrant cultures, there is so much to explore and discover. Open your mind and let your curiosity lead the way!

HAPPY HOLIDAYS

ENGLISH

1. Choose any three English authors and write a page about each of them. Draw or paste their pictures and write the names of books written by them.

2. Read any two English books and write book review.


3. Create an album capturing moments how you helped your parents and how your parents helped you on several occasions during summer vacation.

4. Beautiful handwriting makes a good impression. Write 10 pages of English writing.

5. Compose an adventurous and interesting story in which you are a hero in 250-300 words.

Note: Use a thick A4 size sheet and be as creative as you can.

6. Make your own dictionary and write 50 phrases, 40 synonyms, 40 new words with meaning and



sentences, 30 idioms.

संस्कृत

नोट -कार्य को सुंदर लिखावट में करें तथा संस्कृत गृहकार्य के लिए अलग से कॉपी* बनाएं ।

1- संस्कृत में 20 छोटे-छोटे वाक्य लिखिए तथा उनके अर्थ भी लिखिए। जैसे

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बालः क्रीडति= बच्चा खेलता है।

2- ग्रीष्मावकाश के दिनों में अपने आसपास जो देखते हैं प्रतिदिन एक नया संस्कृत शब्द लिखिए तथा उनका अर्थ भी लिखिए।

3- किम् शब्द का (पुल्लिंग, स्त्रीलिंग और नपुंसकलिंग) में रूप लिखिए।

4- संस्कृत में पांच श्लोक अर्थ सहित लिखिए।

5- कक्षा में करवाए गए सभी कार्यों को याद कीजिए।

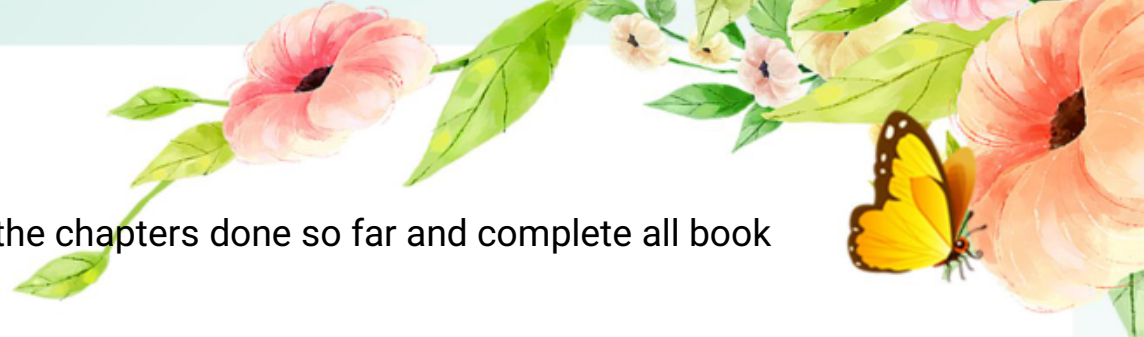

COMPUTER SCIENCE

* Prepare a scrapbook and paste different types of sensors used in Robotics.

* Draw and label any one sensor on A4 size Pastal sheet.


* Make some device using Arduino Uno and other sensors.

SOCIAL STUDIESS

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1. Revise all the chapters done so far and complete all book exercise
 2. Complete the worksheets of chapter 1 and 2 given at the end of the chapter
 3. Prepare a PORTFOLIO describing the *Historical facts* of Lakshadweep Islands. It is to be done on a-4 size- coloured sheets in a folder
 4. World map: mark all continents and oceans in the world map and mark all states in the India map
 5. Prepare a tipi-tipi-top (foldable), using A4 sheet, classifying different groups of Natural Resource depending upon their level of development and use, origin, stock and Distribution and write a brief explanation of its types inside the folded part
 6. Prepare a web chart showing different types of resources with categories and sub Categories of resources like
Natural
Human-made
- 

हिंदी

1. भारत की सांस्कृतिक विविधता पर एक सुंदर पोस्टर तैयार कीजिए।
2. आपकी पुस्तक में दिए गए मुहावरों एवं विलोम शब्दों का अभ्यास करें।

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3. दस पृष्ठ सुलेख लिखें।
 4. प्रतिदिन समाचार पत्र पढ़िए व खेल जगत आदि से संबंधित खबरों व चित्रों की कतरनों से एक सुंदर कोलाज़ बनाइए।
 5. भारत के किन्हीं 10 राज्यों में बोली जाने वाली भाषाओं की सूची तैयार कीजिए।
 6. कोई एक मूल्यपरक कहानी अपने शब्दों में लिखिए।
 7. स्रोत के आधार पर शब्द कितने प्रकार के होते हैं ? पर एक चार्ट तैयार कीजिए।
 8. भारत में 'अनेकता में भी एकता' है। कथन को चित्रों के माध्यम से दर्शाएं।(A 4 साइज़ शीट का प्रयोग करें।)
 9. करवाए गए पाठ्यक्रम का पुनः अध्ययन करें तथा याद करें।

SCIENCE

1. Read the following chapters from the book thoroughly and also Learn the questions and answers: Ch-2:

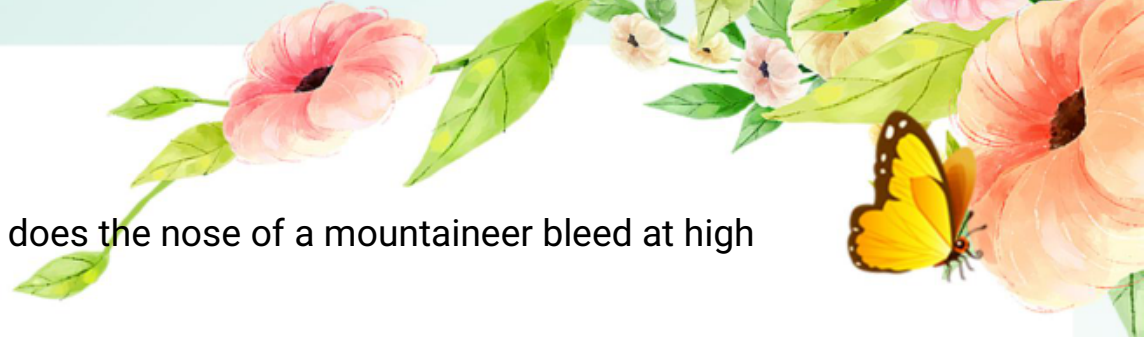
Microorganisms-friend and foe ,Ch-11: Force and pressure


2. Do the following questions in holiday homework notebook:-

a) If a man stands on a chair, chances of its breaking are more but if a man sits on chair, chances of its breaking are less.

Explain.

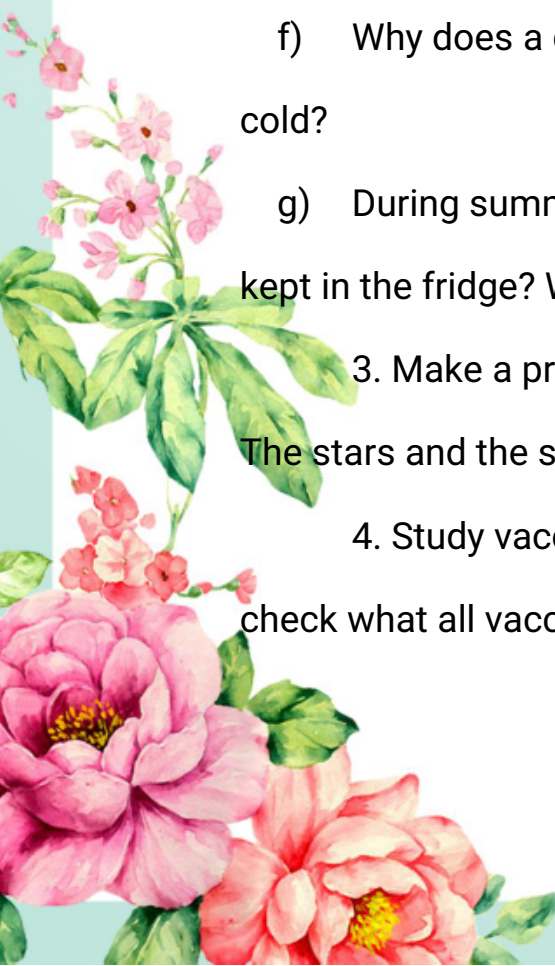



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- b) Why does the nose of a mountaineer bleed at high altitudes?
- c) Why does an astronaut wear a special type of suit?
- d) The pressure due to the atmosphere is very large. Why are we not crushed?
- e) You have studied about force and pressure and learnt that all changes occur due work done by force and pressure. Which forces or pressures are responsible for the following natural changes causing disaster :

- a. Earthquake b.High tide and low tide c.lighting during thunderstorm
- d. Cyclone e.Tsunami f.Trade winds
- g. Formation of pressure belt h. Flood i. Volcanic eruption.
- f) Why does a doctor advise only rest and no antibiotics during cold?
- g) During summers, the curd becomes sour very soon if not kept in the fridge? Why?
- 

3. Make a project/ powerpoint presentation on the topic -
The stars and the solar system.

4. Study vaccination charts of some children thoroughly and check what all vaccination have been given and why?





5. Make a science working model according to the assigned topics:-

Roll no.1 to 13 - Kaleidoscope/ pinhole camera/ any other model related to light

Roll no. 14 to 26- Earthquake alarm/ potato battery/ any other model related to electricity and its effects

Roll no. 27 to 40- Working model of lungs/ working model of reflex arc/ any other model related to biology

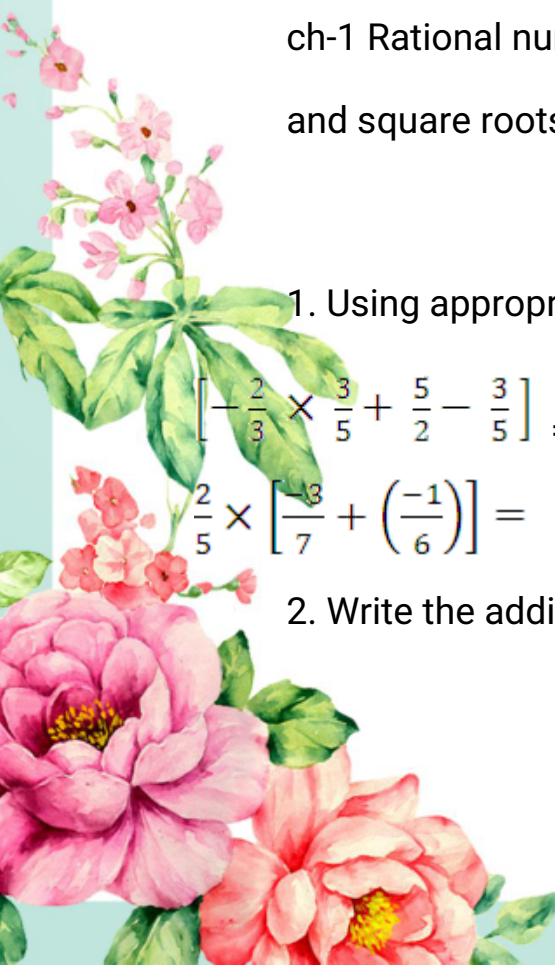
MATHEMATICS



Instructions: The below stated worksheets are to be done in Separate notebook or A4 size white sheet. Do worksheets of ch-1 Rational numbers, ch -2 Exponents and ch-3 Squares and square roots

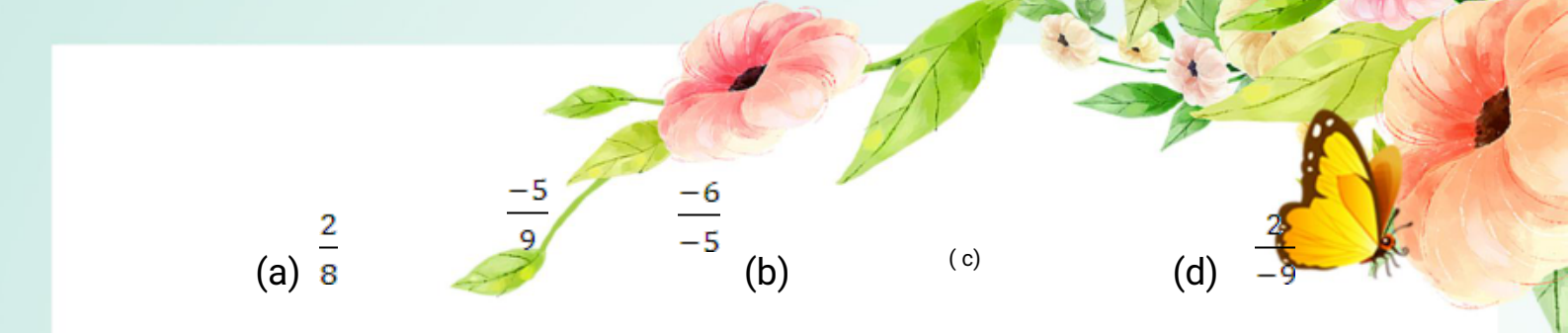
Worksheet number :-1 Rational Numbers

1. Using appropriate properties find:


$$\left[-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \right] =$$

$$\frac{2}{5} \times \left[\frac{-3}{7} + \left(\frac{-1}{6} \right) \right] =$$

2. Write the additive inverse of each of the following :

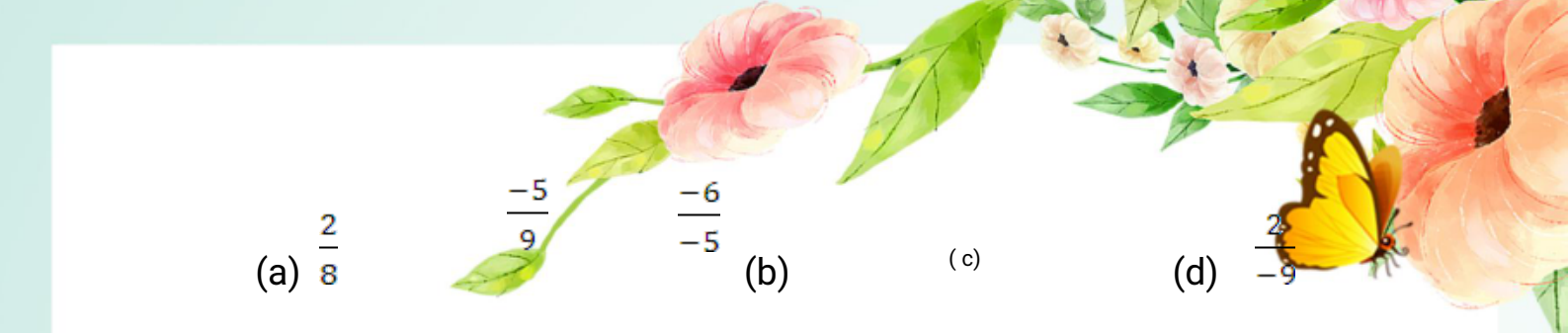

$$(a) \frac{2}{8}$$

$$\frac{-5}{9}$$

$$\frac{-6}{-5}$$

(b)

(c)


$$(d) \frac{2}{-9}$$

$$(e) \frac{19}{-6}$$

3. Verify that $(-x) = x$ for

$$a) \frac{11}{5} \quad \frac{-13}{17} \quad b) x =$$

4. Name the property under multiplication used in each of the following :

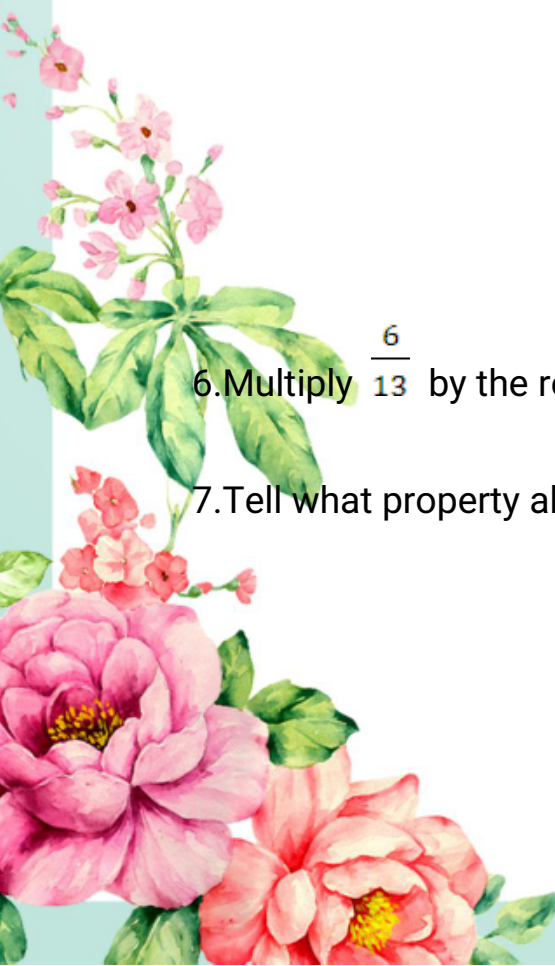
$$(a) \frac{-4}{5} \times 1 = 1 \times \frac{-4}{5}$$

5. Name the property under multiplication used in each of the following:

$$\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = \frac{-4}{5}$$
$$\frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$$

6. Multiply $\frac{6}{13}$ by the reciprocal of $\frac{-7}{16}$

7. Tell what property allows you to compute



Why or why not?

$$\frac{1}{3} \times \left[6 \times \frac{4}{3} \right] \text{ as } \left[\frac{1}{3} \times 6 \right] \times \frac{4}{3}$$

8. Is $\frac{8}{9}$ the multiplicative inverse of $-1 \left[\frac{1}{8} \right]$? Why or why not?

9. Is 0.3 the multiplicative inverse of $3 \left[\frac{1}{3} \right]$ 10. Write

(a) The rational number that does not have a reciprocal.

(b) The rational numbers those which are equal to their reciprocals.

(c) The rational number that is equal to its negative.

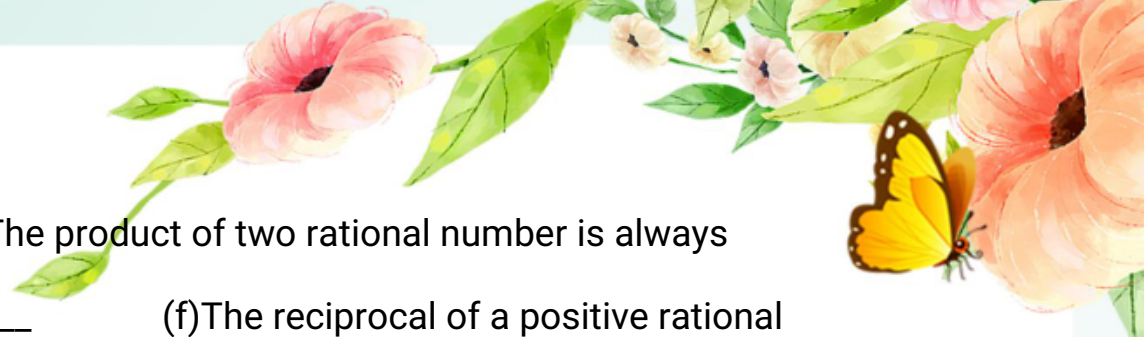
11. Fill in the blanks:

(a) Zero has _____ reciprocal.

(b) The numbers _____ and _____ are their own reciprocals.

(c) The reciprocal of -5 is _____

(d) Reciprocal of $1/x$, where $x \neq 0$ is _____



(e) The product of two rational numbers is always
a _____ (f) The reciprocal of a positive rational
number is _____

12. Represent these numbers on a number line:

$\frac{7}{4}$ (a) $\frac{-5}{6}$ (b)

13. Represent $\frac{-2}{11}$, $\frac{-5}{11}$, $\frac{-9}{11}$ on the number line.

14. Write five rational numbers which are smaller than 2.



15. Find ten rational numbers between $\frac{-2}{5}$, $\frac{1}{2}$ and

16. Write five rational numbers greater than 2

17. Find ten rational numbers between

$\frac{3}{5}$, $\frac{3}{4}$

18. Find



$$\left[\frac{-6}{11}\right] + \left[\frac{-8}{21}\right] + \frac{5}{22}$$

$$\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left[\frac{-14}{9}\right]$$

19. Write the additive inverse of the following:

(a) $\frac{-7}{19}$

(b) $\frac{21}{112}$

20. Verify that $-(-x)$ is the same as x for:

(a) $x = \frac{13}{7}$

(b) $x = \frac{-21}{31}$

21. Find $\frac{2}{5} - \frac{3}{7} - \frac{1}{14} - \frac{3}{7} \times \left[\frac{-4}{11}\right]$ - -

22. Write any three rational numbers between -2 and 0

24. Find

any ten rational numbers between

$$\frac{1}{4} \quad \frac{1}{2}$$

Worksheet number :-2 Exponents

(one mark questions)

Q1.




Simplify :

$$(-2)^5 \div (-2)^8$$

Q2. Simplify: $(-3)^2 \times (5/3)^2$

Q 3. Express 0.000000000406 in standard form.




Q 4. Express 3×10^{-7} in usual form.


Q 5. Evaluate 6^{-2} .

Q 6. Write 0.000021 in standard form.

Q 7. Write 41860000000 in standard form.

Q 8. Express 4.5×10^4 in usual form.






Q 9. Evaluate: $(2^{-1} + 3^{-1} + 4^{-1})^0$

Q 10. Find the value of $(4^{-1} \times 2^{-1}) \times 3^{-1}$.

Q 11 .Expand 1526.26 using exponents.

(2 marks) questions

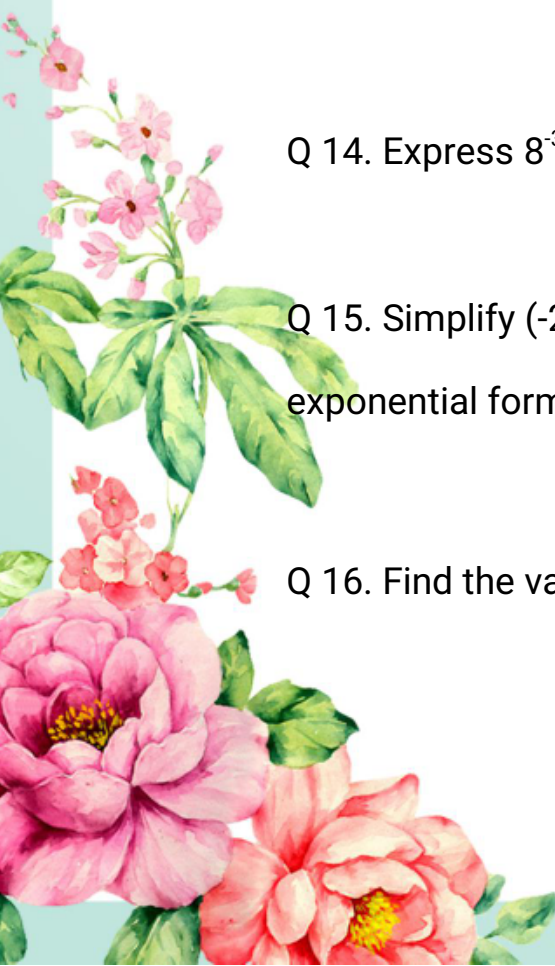
Q 12. Expand 1026.13 using exponents.



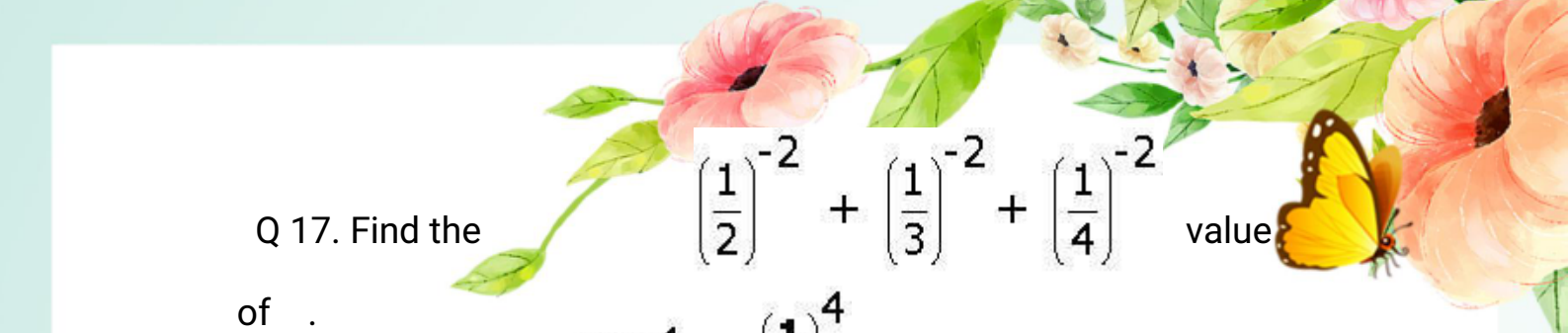
Q 13. Find x such that $(-2)^{x+1} \times (-2)^5 = (-2)^7$.

Q 14. Express 8^{-3} as power with the base 2.

Q 15. Simplify $(-2)^{-3} \times (-3)^{-3} \times (4)^{-3}$ and write the answer in exponential form.



Q 16. Find the value of $(4^0 + 3^{-1}) \times 3^2$.



Q 17. Find the value of $\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$.

$(-3)^4 \times \left(\frac{1}{3}\right)^4$

Q


18. Simplify:

(3 marks) questions


Q 19. Simplify $\left[\left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-2}\right] \div \left(\frac{1}{4}\right)^{-2}$.

Q 20. Evaluate $\left(\frac{5}{9}\right)^{-7} \times \left(\frac{9}{5}\right)^{-4}$.


Q 21. Find 'a' such that $(-5)^{a+2} \times (-5)^4 = (-5)^9$.



Q22 Simplify $\left(\frac{2}{3}\right)^{-7} \times \left(\frac{3}{2}\right)^{-5}$.



Q.23 Simplify $\frac{25 \times a^{-4}}{5^{-3} \times 10 \times a^{-8}}$, Where $a \neq 0$



Q 24. Compare the size of a red blood cell which is 0.000007 m to that of a plant cell which is 0.00001275 m.

Worksheet number :-3

Squares and Square Roots

Q 1. Find the square root of 729. Mark (1)

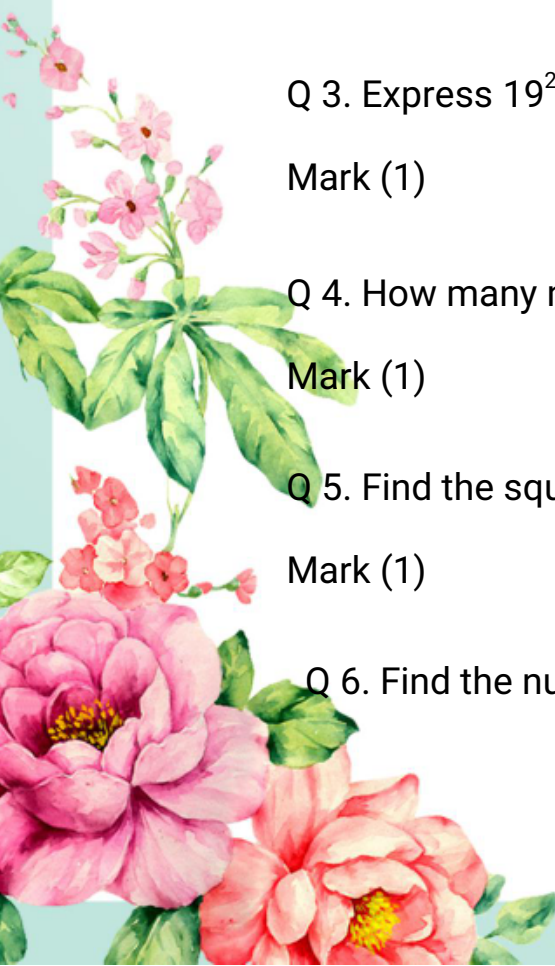
Q 2. Without adding find the sum of $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15$ Mark (1)

Q 3. Express 19^2 as sum of two consecutive integer
Mark (1)

Q 4. How many numbers lie between squares of 99 and 100?
Mark (1)

Q 5. Find the square of 35 (without actual multiplication).
Mark (1)

Q 6. Find the number of digits in the square root of 390625.





Mark (1)

Q 7. Find the square root of 3136 by division method.

Marks (2)

Q8. The area of a square plot is 4489 m^2 . Find the side of the square plot. Marks

(2)

Q 9. Find the square root of 7.29. Marks (2)

Q 10. Find the greatest 4-digit number which is a perfect square. Marks (2)

Q 11. Find the side of a square whose area is 1024 m^2 .

Marks (2)

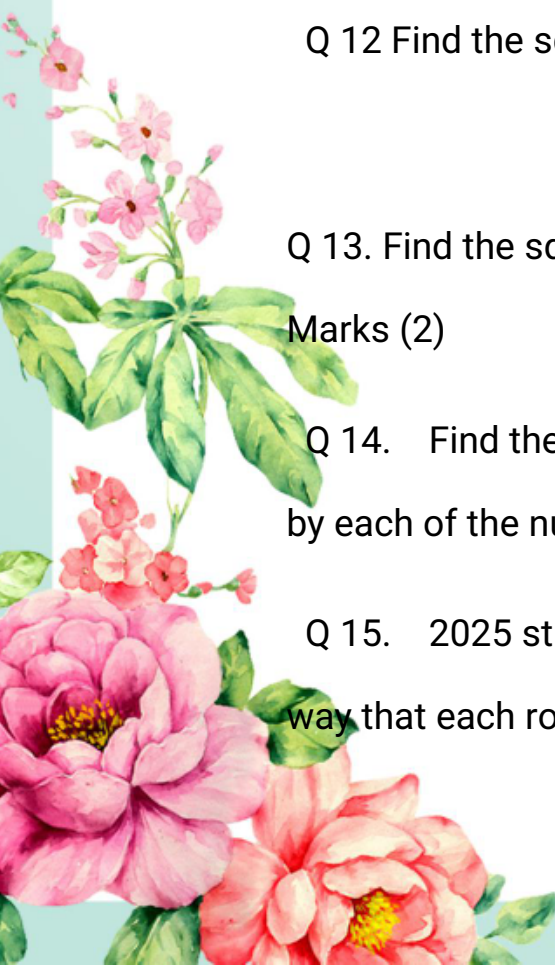
Q 12 Find the square root of : $\begin{array}{r} 225 \\ \hline 3136 \end{array}$ Marks (2)


Q 13. Find the square root of 36 by successive subtraction.

Marks (2)

Q 14. Find the smallest square number which is divisible by each of the numbers 4, 9 and 10. Marks (3)

Q 15. 2025 students are made to stand in a field in such a way that each row contains as many students as the number






of rows. Find the number of rows and the number of students in each row. Marks (3)

Q 16. Find the least number that must be added to 893304 to obtain a perfect square. Marks (3)

Q 17. A society collected Rs 2401. Each member collected as many rupees as there were members. How many members were there and how much did each contribute? Marks (4)

Q 18. Find the square root of 2 correct up to two places of decimal. Marks (4)



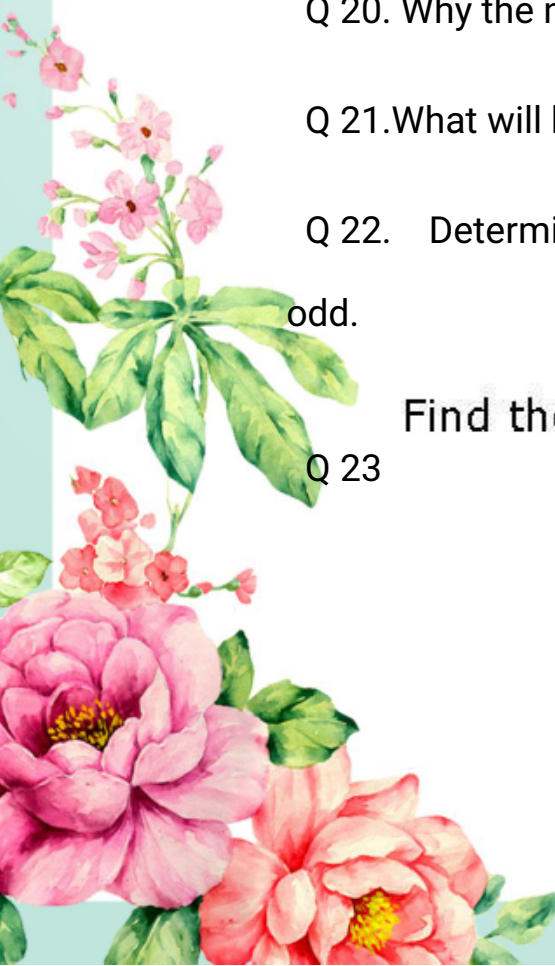
Q 19. Determine whether a square of the 38 is even or odd.

Q 20. Why the number 1053 is not perfect squares?

Q 21. What will be the unit digit in the square of 23?

Q 22. Determine whether the square of the 213 is even or odd.

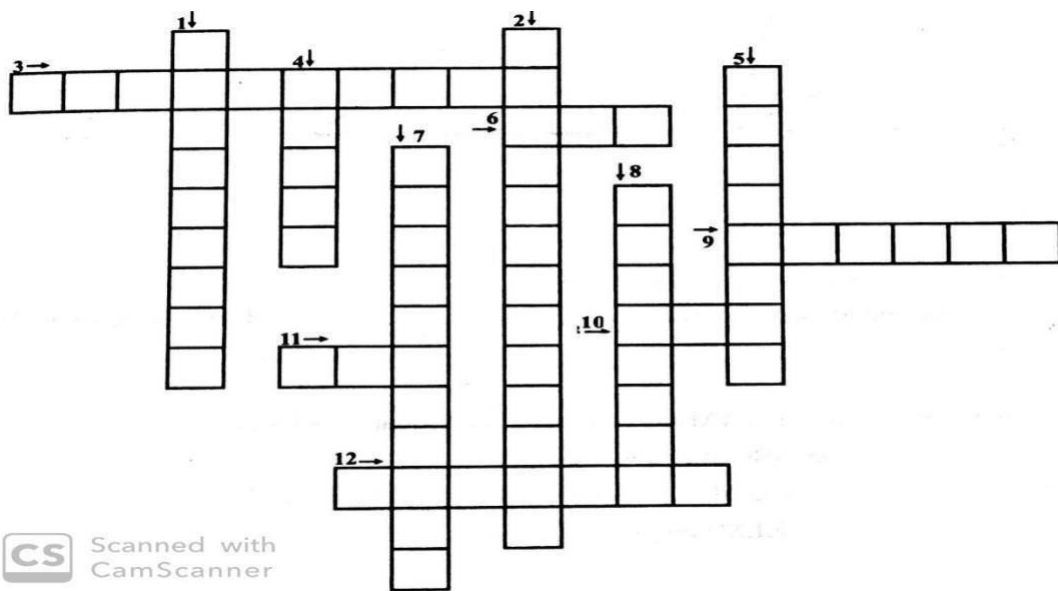
Q 23 Find the value of $\frac{\sqrt{3249} - \sqrt{2209}}{\sqrt{361} - \sqrt{81}}$.



following

crossword with the help

of clues.

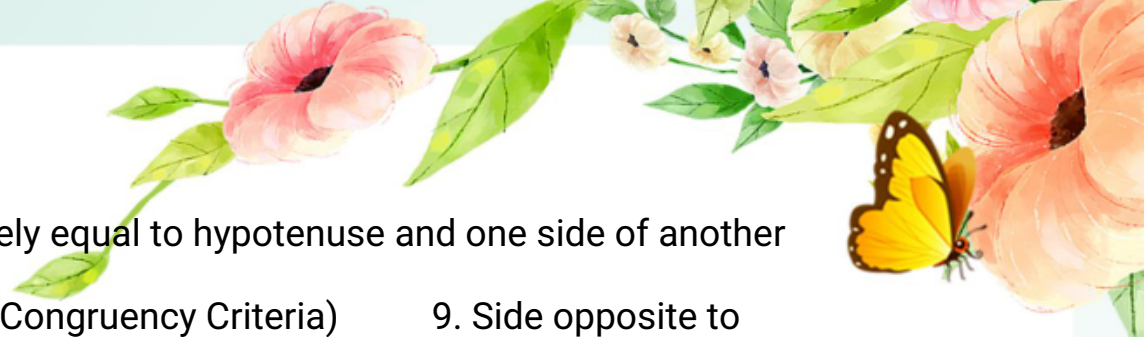


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Across:

3. Longest side in a right triangle.

6. Hypotenuse and one side of right triangle are



respectively equal to hypotenuse and one side of another triangle. (Congruency Criteria) 9. Side opposite to greater angle.

Three sides of one triangle are equal to corresponding sides of another triangle (congruency criteria)

Two angles and included side of one triangle are respectively equal to two angles and the included side of another (congruency criteria)

Sum of two sides in triangle is _____ than third side.

Down:

Two circles of same radii.


Of all the line segments drawn to a line from a point not lying on it _____ distance is the shortest.

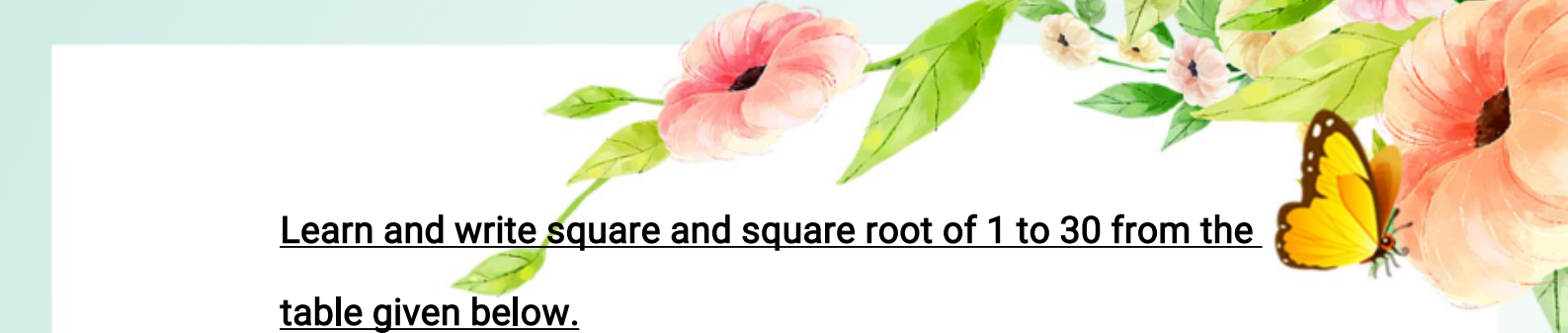
Side opposite to equal angles.

Angle opposite to shortest side.

Triangles having all sides equal.

Triangles having two sides equal.





Learn and write square and square root of 1 to 30 from the table given below.


Square and Square Root Table

Square	Square Root	Square	Square Root
$1^2 = 1$	$\sqrt{1} = 1$	$16^2 = 256$	$\sqrt{256} = 16$
$2^2 = 4$	$\sqrt{4} = 2$	$17^2 = 289$	$\sqrt{289} = 17$
$3^2 = 9$	$\sqrt{9} = 3$	$18^2 = 324$	$\sqrt{324} = 18$
$4^2 = 16$	$\sqrt{16} = 4$	$19^2 = 361$	$\sqrt{361} = 19$
$5^2 = 25$	$\sqrt{25} = 5$	$20^2 = 400$	$\sqrt{400} = 20$
$6^2 = 36$	$\sqrt{36} = 6$	$21^2 = 441$	$\sqrt{441} = 21$
$7^2 = 49$	$\sqrt{49} = 7$	$22^2 = 484$	$\sqrt{484} = 22$
$8^2 = 64$	$\sqrt{64} = 8$	$23^2 = 529$	$\sqrt{529} = 23$
$9^2 = 81$	$\sqrt{81} = 9$	$24^2 = 576$	$\sqrt{576} = 24$
$10^2 = 100$	$\sqrt{100} = 10$	$25^2 = 625$	$\sqrt{625} = 25$
$11^2 = 121$	$\sqrt{121} = 11$	$26^2 = 676$	$\sqrt{676} = 26$
$12^2 = 144$	$\sqrt{144} = 12$	$27^2 = 729$	$\sqrt{729} = 27$
$13^2 = 169$	$\sqrt{169} = 13$	$28^2 = 784$	$\sqrt{784} = 28$
$14^2 = 196$	$\sqrt{196} = 14$	$29^2 = 841$	$\sqrt{841} = 29$
$15^2 = 225$	$\sqrt{225} = 15$	$30^2 = 900$	$\sqrt{900} = 30$



ART

Bird House



Materials to be used-

Card board

Colourful Papers

Lace(Gota)

Fevicol

Fabric Colours

Decorative Accessories

