

1. Find all the possible factors of 24. [2]
2. Express 36 as a product of its prime factors. [2]
3. Find the HCF of 10 and 15. [2]
4. Find the LCM of 6 and 14. [2]
5. Shania has 18 red marbles and 12 white marbles. If she wants to place them in identical groups without any marbles left over, what is the greatest number of groups Shania can make? [4]
6. Fill in the blank space with '<' or '>' - 12 ----- - 34 [2]
7. Arrange the integers in ascending order (ie from the smallest to the greatest).
1, -2, 3, -4, 5 [3]
8. Evaluate
 - (a) $-2 + 1$ [2]
 - (b) $-3 - 5$ [2]
 - (c) 4×-2 [2]
 - (d) $-8 \div -4$ [2]
9. (a) Simplify $\frac{1}{2} + \frac{1}{3}$ [2]
 - (b) Hence simplify $1 - (\frac{1}{2} + \frac{1}{3}) \times \frac{1}{4}$ [4]
 - (c) Evaluate $5 \div \frac{1}{2}$ [2]
- 10.(a) List the square numbers between 20 and 70. [3]
 - (b) Find the positive square root of 400. [3]
11. Find the value of $8 \times (10 \times 2) \div 4$ [3]
12. (a) Copy and complete the following equivalent fraction
$$\frac{4}{5} = \frac{\quad}{25}$$
[2]
 - (b) Arrange the following fractions in descending order
$$\frac{2}{5}, \frac{5}{8}, \frac{7}{10}.$$
[3]
13. Ashley is given Rs 75 to go to school every day. On a particular day,

he spent $\frac{1}{3}$ of his money to buy a burger, $\frac{1}{5}$ on water and $\frac{2}{5}$ on ice cream. Calculate

- (a) The amount spent on ice cream [2]
- (b) The total amount spent [3]
- (c) How much money is left [2]

14. (a) Find $\frac{1}{18}$ of a complete turn, stating the angle formed. [3]

(b) Write down the complementary angle 40° . [2]

(c) Write down the supplementary angle of 70° . [2]

15. (a) Convert 0.4 into fraction giving your answer in the lowest term. [2]

(b) Express $\frac{8}{10}$ as a decimal. [2]

(c) Arrange the following set of numbers in ascending order.

0.3, 0.8, 0.1 [3]

16. (a) Shina had some chocolates. She gave $\frac{1}{2}$ of them to her sister and $\frac{1}{6}$ of them to her brother. What fraction of the chocolates had he left?

[3]

(b) In a school, two-fifths of the students are girls. The remaining

900 students are boys. How many students are there altogether? [4]

17. (a) Krish plants 25 trees in a straight line. The trees are 6m apart. How

far is it from the first tree to the last tree? [4]

(b) What is the greatest number which will divide 154 and 262 so as to leave a remainder 10 in each case? [5]

18 (a) On each of 20 days of a particular year, 10.5 mm of rain fell. What was the total rainfall for those 20 days. [3]

(b) If 2.5 m of material costs Rs 15.75, find the cost of 1.2m of material . [5]

19. The number of hours worked each day by Khushi and Lovena is shown in the table.

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Khushi	7	5	8	9	8	0
Lovena	0	8	9	9	7	5

The number of hours for which they are paid is calculated in the following way. On each of days 1 to 5, every hour worked worked after the first 7 hours is counted as $1\frac{1}{2}$ hours. On day 6, every hour worked is counted as 2 hours.

(a) Calculate the total number of hours for which Khushi was paid. [4]

(b) The rate of pay is \$ 14.50 per hour. How much did Lovena earn on day 6? [4]