



**ANSWER KEY TO QUESTION BANK GRADE -5 SUBJECT: MATHEMATICS**

1) Write down the first five multiples of the following numbers ;

a) 8

b) 18

c) 25

a) 8,16,24,32,40

b) 18,36,54,72,90

c) 25,50,75,100,125

2) Write down the factors of the following .

a) 36

b) 72

c) 100

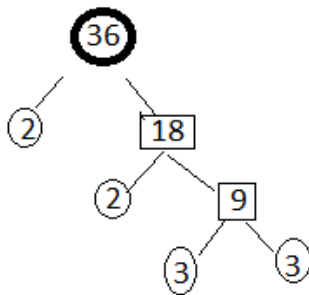
Factors of 36: 1,2,3,4,6,9,12,18,36

Factors of 72: 1,2,3,4,6,8,9,12,18,24,36,72

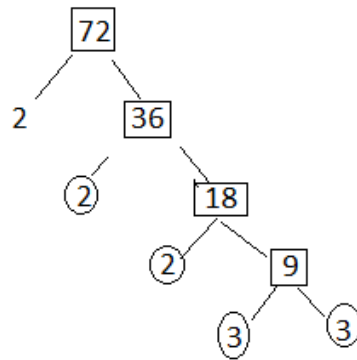
Factors of 100: 1,2,4,5,10,20,25,50,100

3) Draw the factor tree and find all the factors of the following numbers.

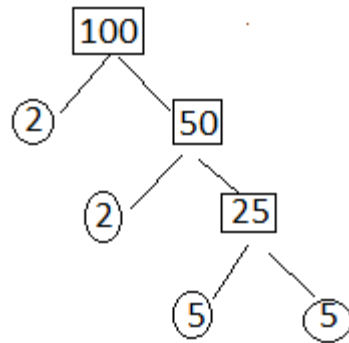
a) 36



b) 72



c) 100



4) Write down i) the first 10 multiples of each number

ii) common multiples of each numbers and

iii) Lowest common multiple (L.C.M) of each of the following pair of numbers .

a) 6, 8

multiples of 6 = 6,12,18,24,30,36,42,48,54,60,.....

Multiples of 8 = 8,16,24,32,40,48,56,64,72,80,.....

common multiples of 6 and 8 = 24,48,...

Lowest common multiple (L.C.M) 6 and 8 =24

b) 8, 12

Multiples of 8 = 8,16,24,32,40,48,56,64,72,80,.....

Multiples of 12 = 12,24,36,48,60,72,84,96,108,120,...

common multiples of 8 and 12 =24, 48,72,....

Lowest common multiple (L.C.M) 8 and 12 = 24

c) 15,18

Do as shown above.

5) Find out the first 5 multiples of 16.

Ans; 16,32,48,64,80,

6)Find the greatest number that will exactly divide 300 and 120.

Ans: 60

7) Find the smallest number that can be exactly divided by 33 and 22.

Ans: 66

8)What are prime numbers below 15?

Ans: 2,3,5,7,11,13

9) What do you mean by composite numbers ?

The numbers which have more than two factors are called composite numbers

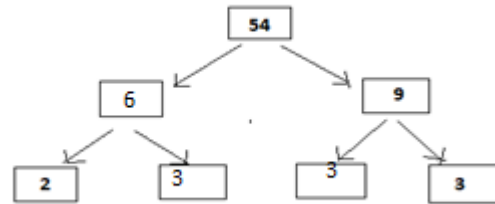
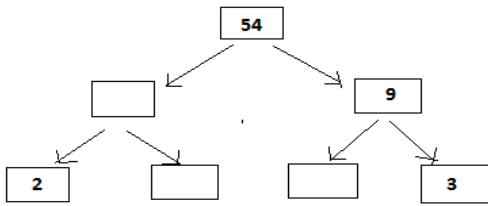
10) Which is the smallest prime number? Ans:2

11) Fill in the blanks:

a)The common factor(s) of 2 and 11 will be : ..1...

b) The common factor(s) of 9 and 49 will be: ...1.....

12) Complete the factor tree of 54



Ans:

13) Convert the the Given measurements:

a)  $\frac{1}{3}$  of 2400 m =  $\frac{1}{3} \times 2400 \text{ m} = \frac{2400}{3} \text{ m} = 800\text{m}$

b)  $\frac{1}{4}$  of 6 m =  $\frac{1}{4} \times 6\text{kg} = \frac{1}{4} \times 6000\text{g} = \frac{6000}{4} \text{ g} = 1500 \text{ g or } 1.5\text{g}$

d)  $\frac{2}{3}$  of 6kg =  $\frac{2}{3} \times 6\text{kg} = \frac{12}{3} \text{ kg} = 4 \text{ kg}$

c)  $\frac{3}{5}$  of 15m =  $\frac{3}{5} \times 15\text{m} = \frac{45}{5} \text{ m} = 9 \text{ m}$

d) 42 m 28 cm into cm = 4228 cm

e) 89km 150m into cm = 89,150 m = 89,15,0 00 cm

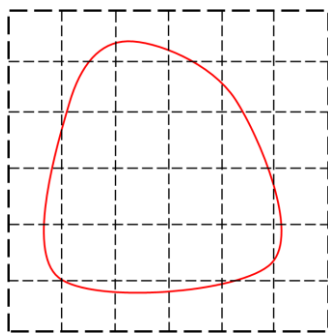
f) 38kg 5g into g = 38,005 g

g) 5400ml into l = 5.4 ml

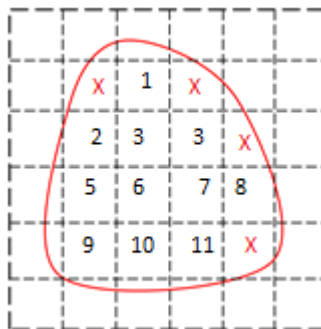
h) 3200m into km = 3.2 km

i)  $\frac{1}{4}$  of 6l =  $\frac{1}{4} \times 6\text{l} = \frac{1}{4} \times 6000 \text{ ml} = \frac{6000}{4} \text{ ml} = 1500 \text{ ml or } 1.5 \text{ l}$

14) Find the area of the following shape.



Ans:



Ans: Number of full squares = 11 , Number of half or more than half squares = 4

Total area of the shape = 11+4 = 15 sq. units

15)

Johns wants to build a small enclosure in his garden, for his pet rabbits. The enclosure will be 12m in length and 8m in width.

- What will be the length of the fencing he will need?
- How much area will the rabbits get to run around?

Ans: length = 12m , breadth = 8m

Length of the fencing = perimeter of the enclosure

$$= 2(l+b) = 2(12+8) = 2 \times 20 = 40m$$

ii) Area of the enclosure =  $l \times b = 12m \times 8m = 96 \text{ sq.m}$

16) Add 12km 500 m and 6km 300m.

	km	m	
	12	500	
+	6	300	
	18	800	

Ans:                          = 18km 800m

17) There are two shifts in a water paper carry bag unit. Ann works in the first shift starting from 7:30 a.m to 12: 45 p.m and Sherin works in the second shift from 12:45 p.m to 6:15 p.m.

i) Find the total duration of working time of Ann?

$$12:45 - 7:30 = 5:15 = 5:15$$

ii) Find the total duration of working time of Sherin?

$$6:15 - 12:45 = 18:15 - 12:45 = 17:75 - 12:45 = 5:30$$

ii) Who is working for longer time? And how much more?

Sherin works for more time. She works 15 5:30 - 5:15 = 0:15 = 15 min. more than Ann.

18) Compare the fractions:

a)  $\frac{8}{11}$  ,  $\frac{9}{13}$

Ans:  $8 \times 13 = 104$  ,  $11 \times 9 = 99$

$104 > 99$

$\frac{8}{11} > \frac{9}{13}$

b)  $\frac{5}{12}$  ,  $\frac{8}{18}$

Ans:  $5 \times 18 = 90$  ,  $12 \times 8 = 96$

$90 < 96$

$\frac{5}{12} < \frac{8}{18}$

19) Convert the decimals

b)  $12.05 = \frac{1205}{100} = \frac{241}{20}$  or  $12 \frac{5}{10}$

c)  $346.78 = \frac{34678}{100} = \frac{17339}{5}$  or  $346 \frac{78}{100}$

d)  $0.012 = \frac{12}{1000} = \frac{3}{250}$

20) Of 100 children in a school art competition, three-quarters bring their own colours; 40 children bring paints, 18 children bring colour pencils and the rest of them bring crayons. What is the fraction of children who bring crayons to the children who participate in the competition?

Total number of participants = 100

Number of participants who brought colours =  $\frac{3}{4} \times 100 = \frac{300}{4} = 75$

Number of participants who brought paints = 40

Number of participants who brought colour pencils = 18

Number of participants who brought crayons =  $75 - (40 + 18) = 75 - 58 = 17$

Fraction of children who bring crayons to the children who participate in the competition =  $\frac{17}{100}$

21) Free food coupons were given to 300 students in a school. Only 120 of these were used in the school lunch hall.

i) What is the fraction of the used coupons to the total number of coupons?

Total number of students who got food coupons = 300

Number of coupons used = 120

fraction of the used coupons to the total number of coupons =  $\frac{120}{300} = \frac{12}{30}$  or  $\frac{2}{5}$

ii) what is the fraction of the unused coupons to the total number of coupons?

Number of coupons unused =  $300 - 120 = 180$

Fraction of the used coupons to the total number of coupons =  $\frac{180}{300} = \frac{18}{30}$  or  $\frac{3}{5}$

22) Add : a) ₹ 8627.50 + ₹ 3127.75 = ₹ 11,755.25

b) ₹ 27456.25 + ₹ 3123.75 = ₹ 29580.00

23) Subtract: a) ₹ 65,460.50 - ₹ 14,727.75 = ₹ 50,732.75

b) ₹ 57,456.25 - ₹ 13,923.75 = ₹ 43,532.50

24) Do the following:

a) a) ₹ 85,624 ÷ 12 Ans: Q = ₹ 7135 , R = ₹ 4

$$\begin{array}{r} 7135 \\ 12 \overline{) 85624} \\ \underline{-84} \phantom{00} \\ 16 \phantom{00} \\ \underline{-12} \phantom{00} \\ 42 \phantom{00} \\ \underline{-36} \phantom{00} \\ 64 \phantom{00} \\ \underline{-60} \phantom{00} \\ 4 \end{array}$$

b) ₹ 60,986 ÷ 36 Ans: Q = ₹ 1694 , R = ₹ 2

$$\begin{array}{r}
 1694 \\
 36 \overline{) 60986} \\
 \underline{-36} \phantom{00} \\
 249 \phantom{00} \\
 \underline{-216} \phantom{00} \\
 338 \phantom{00} \\
 \underline{-324} \phantom{00} \\
 146 \phantom{00} \\
 \underline{-144} \phantom{00} \\
 2
 \end{array}$$

25)The cost of 26 books is ₹ 9048 is .What is the cost of a book?

cost of 26 books = ₹ 9048

cost of a books = ₹ 9048 ÷ 26 = ₹3 4 8 (show division)

26)Anitha’s grand father gifted her ₹ 2750.She wants to give an equal share to 5 of her nieces. How much will each niece get?

Total money with Anitha = ₹ 2750

Amount given to each of her niece = ₹ 2750 ÷ 5 = ₹ 550 (show division)

27) Sherin wants to buy a table chair ,table lamp and book shelf the price list is given below .Calculate the total bill she has paid after buying tthese items .

Description	Quantity	Price per unit	Total
Table	3	₹ 2,300	₹ 6,900
chair	12	₹ 650	₹ 7,800
Table lamp	4	₹ 480	₹ 1,920
Book shelf	3	₹6250	₹ 18,750
<b>Total</b>			<b>₹ 35,370</b>

28) The way of representing a data by using pictures is called: Ans: pictograph

29)the way of using rectangular bars with a gap between them is called a

Ans: bar graph.....

30) Arun had a habit of saving a portion of his monthly pocket money. He records the amount he saves over a period of 6 months.

Draw a i) pictograph and ii) a bar graph for the following data by choosing a suitable scale.

Month	Amount saved in ₹
January	₹ 300
February	₹ 200
March	₹ 400
April	₹ 150
May	₹ 500
June	₹ 350

Draw pictogram and bar graph by using a suitable scale for eg ; 1cm= ₹ 50