

Q1 a. Identify each underlined place-value position, then write the value of the underlined digits.

Numbers	3,8 <u>5</u> 4	<u>9</u> 02,693	31,8 <u>4</u> 6,255
Place value			
Value of digit			

b. Arrange these numbers in ascending order.

-65, 37, 47, -52, -88

_____ _____ _____

c. Write the temperatures in order from coldest to warmest.

13°C, -5°C, -7°C, -11°C, 2°C

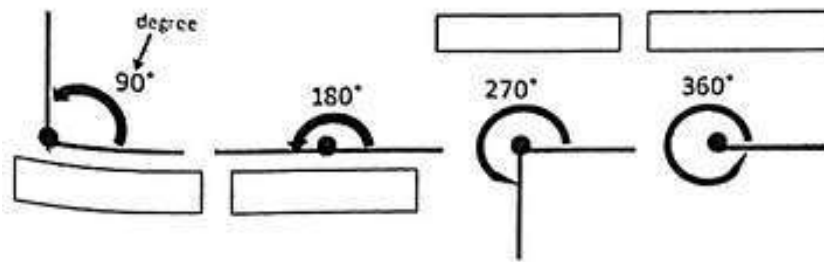
coldest _____ _____ _____ _____ warmest

Q2. Calculate $26 \div 9$. Give your answer as a mixed number, Improper fraction and decimal numbers.

I. Mixed number _____

II. Improper fraction _____

Q3. What part of a full turn does this diagram show?



Q4. What fraction of the given shapes are shaded? Write your answers in the simplest form.



a) _____ = _____



b) _____ = _____



c) _____ = _____



d) _____ = _____

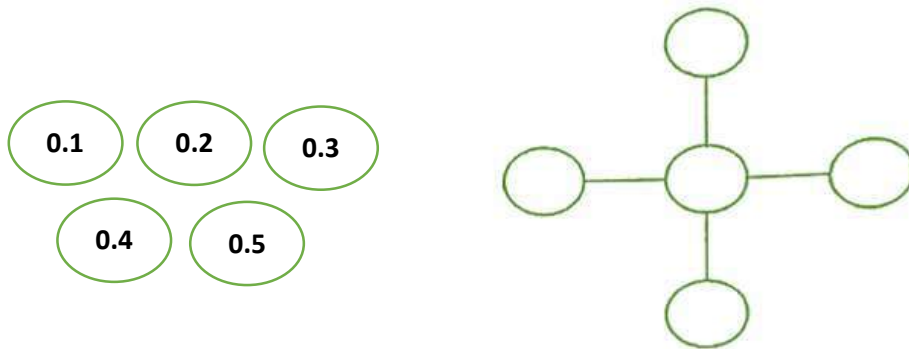
Q5 a. Write two different prime numbers that add up to 10.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 10$$

b) Write two different factors of 12 that add up to 15.

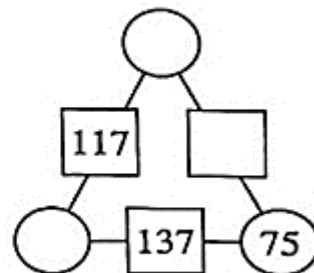
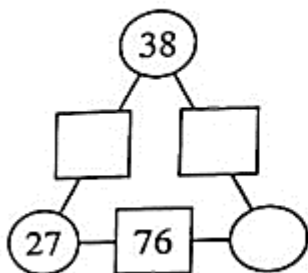
$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

c) Here are five counters with numbers on them.



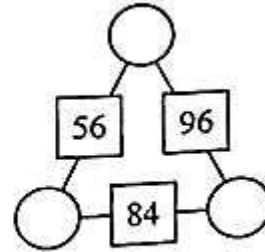
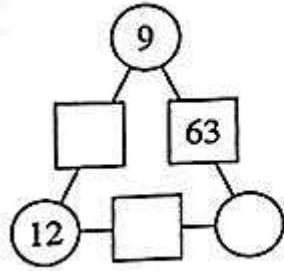
Place each card once onto this diagram so that each line of 3 counters has the same total. Complete the diagram.

Q6 a. The numbers in the squares are the sum of the numbers in the circles.
Find the missing numbers.



b. The numbers in the squares are the product of the numbers in the circles.

Find the missing numbers.



Q7. Write the equivalent fractions.

1) $\frac{2}{5} = \frac{6}{\square}$

2) $\frac{1}{3} = \frac{\square}{6}$

3) $\frac{7}{4} = \frac{\square}{20}$

4) $\frac{5}{8} = \frac{30}{\square}$

5) $\frac{1}{2} = \frac{9}{\square}$

6) $\frac{9}{4} = \frac{\square}{16}$

Q8. Use the given fact. $45 \times 9 = 405$

$4.5 \times 0.9 = 4.05$

$4.5 \times 0.9 = 40.5$

$4.5 \times 0.9 = 40.5$

$45 \times 90 = 4050$

Put a (x) through the incorrect answer.

Q9. Complete this sequence.

a) 1,, 9, 16,,, 49, 64,

b) 2, 5,, 11,, 13,, 19,,

c) 63,,, 36, 27,,

d), 4.9,, 4.3,, 4.0,,

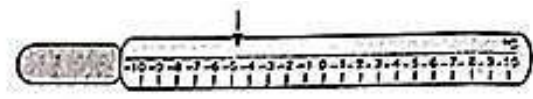
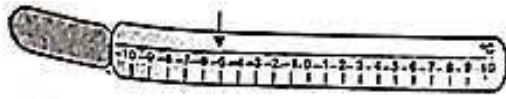
Q10 a. How many degrees more is 2°C than -2°C . _____

b) The temperature today is -9°C . It is 8° warmer than the following day.

What will be the temperature next day?

c) The temperature in London is -5°C and in Barrington it is -8°C . What is the difference between two temperatures?

Q11. Write the new temperature.



i. The temperature rises by 8°


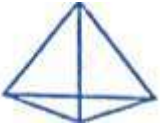

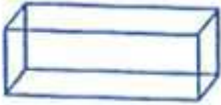

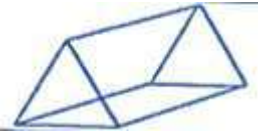
ii. The temperature falls by 5°

Q12 a. Look at these 2D shapes. Write name of shapes in correct column.

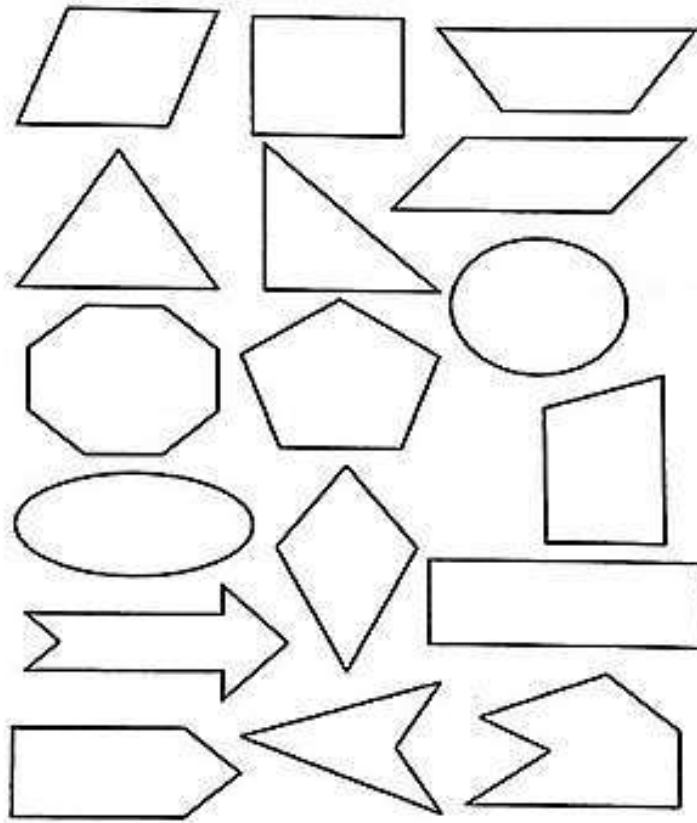


Less than 5 Vertices	More than 4 edges	Curved lines

b. Complete this table.

	Shape	Faces	Edges	Vertices
1.				8
2.		4		
3.				6
4.			12	
5.		5		
6.			9	

c. Here are some polygons. Put a (x) inside each regular polygon.

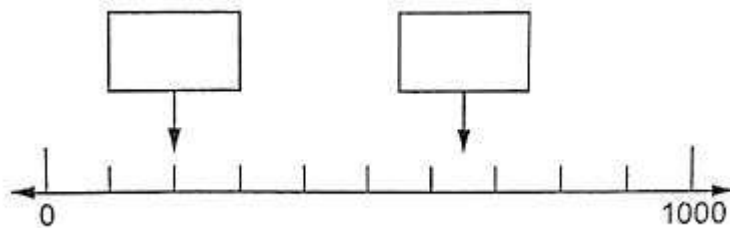


Q13. Use these numbers to complete this calculation.



..... , >,

Q14 a. Write the missing number in each box.



b. Draw an arrow to make the position of 4500 on the blank number line.



It is helpful to mark 5000 halfway along the line.

Q15 a. Look at these analogue clocks.



(i)



(ii)



(iii)

Read each clock and write the time in 12-h 24-h clock notation.

12-h Clock

24-h Clock

- | | | |
|------|------------|-------|
| I. | _____ p.m. | _____ |
| II. | _____ a.m. | _____ |
| III. | _____ p.m. | _____ |

b. Which of these times is closest to 9 o' clock at night?

Circle the correct time.

08: 55 22: 45 21: 05 8:59

Q16. Work backwards to find each number. Write down the inverse calculation.

a) If you multiply a number by 4 and then subtract 4, you get 48.

b) If you halve a number, and then halve the result, you get 9.

Q17. Complete this table.

Decimal	Fraction	Percentage
0.43		
	$\frac{17}{20}$	
		39%

Q18. In a survey about household odours, $\frac{2}{5}$ of the people said pet odours were the smelliest, $\frac{7}{10}$ voted for cooking odours, and $\frac{17}{20}$ chose garbage odours.

Which odour did people choose most?

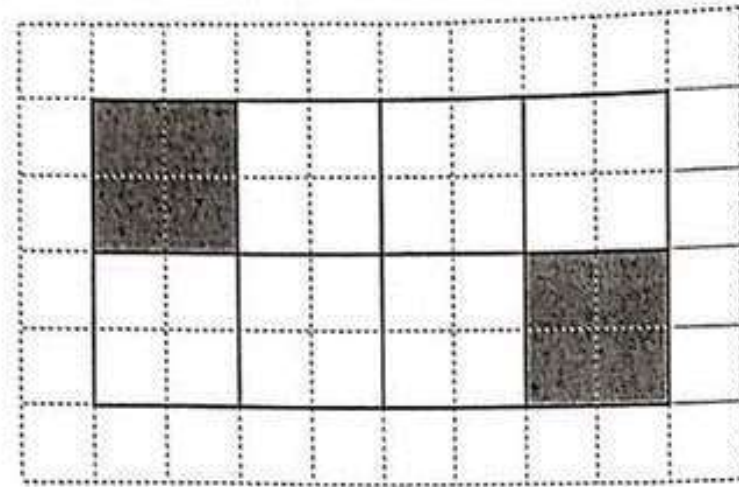
A) pet odours

B) garbage odours

C) cooking odours

D) cannot tell from data

Q19. Here is a rectangle drawn on centimeter squared paper.



a) What percentage of the rectangle is shaded?

b) Use your answer of (a) and write in decimal.

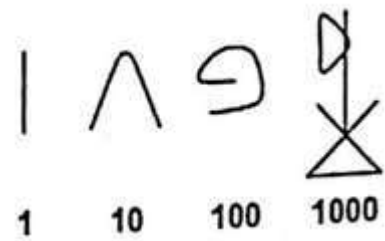
Q 20. A group of 10 girls go to fun land. It costs \$2.75 for one girl.

Work out the total cost for all 10 girls.

\$ _____

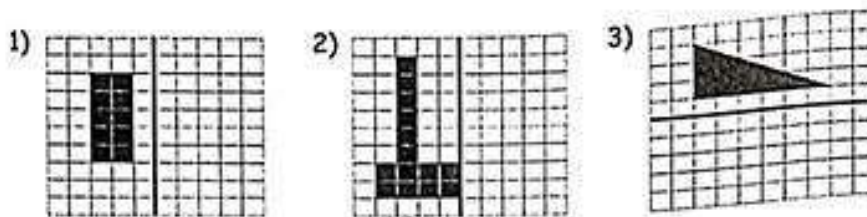
Q 21. Here are some symbols.

Ancient Egyptian used these symbols to represent numbers. With the help of these symbols complete this table.



Symbols	Numbers
	3425
	6718

Q 22. Draw the reflection of the shapes in the mirror line.



Q 23 a. Hafiz has \$25.

His sister has $\frac{1}{5}$ as much as Hafiz.

His father has 40% as much as Hafiz.

Calculate how much money Hafiz, his sister and his father have in total.

Sister amount: \$ _____

Father's amount: \$ _____

Total amount: \$ _____

b. Kamran buys a packet of 50 candies of different flavors.

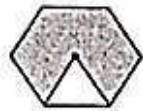
$\frac{2}{10}$ of the candies are strawberry flavor.

How many candies are Not of strawberry flavor?

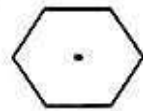
Q 24 a. Here are some spinners. Draw a line to show probability of each spinner landing on the shaded part.



Impossible



Unlikely



Even chance



Likely

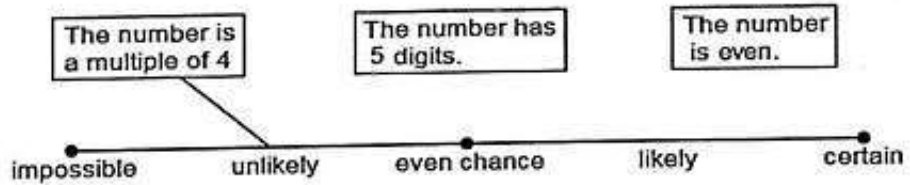


Certain

b. A computer chooses a whole number between 1 and 100 at random.

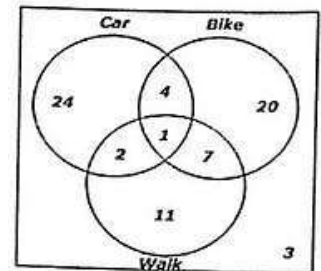
Draw a line to match the outcome to its likelihood.

The first has been done for you.



c. What is the likelihood of getting a negative on a 1 – 6 dice? _____

d. The mode of transportation to school for grade 6 students is given below. Answer the following questions and shade the relevant portion on the Empty Venn diagram that you read.



How many students took this survey? _____	
How many students walk to school? _____	
How many students travel by bike and car but don't walk? _____	
How many students use only bikes? _____	
How many students use all the three modes of transportation? _____	

Q 25. Round these numbers to the indicated place value.

Nearest Hundred	Nearest Thousand
83748 _____	174 820 _____
34044 _____	99 908 _____
56898 _____	167 976 _____

Q 26 a. Admission for mathematics and physics in a college are in a ratio 2:5.

I. If there are 46 seats for Mathematics, how many seats are available for Physics?

II. Find the total number of seats for both the subjects?

b. A number is divided in the ratio 3:4. If the first part is 24 find the other.

Q 27 a. Suppose you want to take a class in karate. The first class is November 16th. The class meets every week for 6 weeks. What's the date of last class?

b. Here is the calendar for the month of March.

Use the given calendar to answer the following questions.

March

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

a) Today is March 28, and the telephone bill was paid on March 7.

b) How long ago was it paid? _____ weeks.

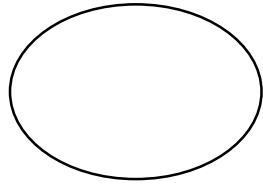
c) Elizabeth must pay her taxes in 2 weeks and 3 days.

Today is March 19. On what date is it due? _____

d) What will be the date four weeks after 14th March? _____

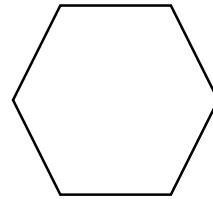
e) All multiples of 7 lie on a _____.
(day)

Q 28. Here are some shapes. Write number of lines of symmetry and their order of rotational symmetry of each shape.



i. _____

ii. _____



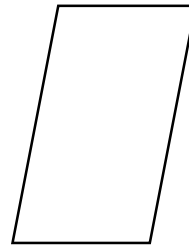
i. _____

ii. _____



i. _____

ii. _____



i. _____

ii. _____

Q 29. Write down first 7 multiples of 7.

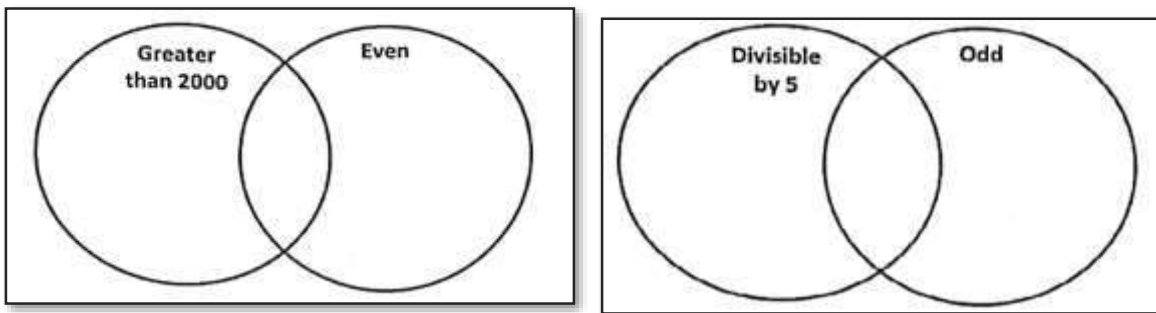
Q 30. Complete these calculations.

a.	$3.5 + \underline{\quad\quad} = 10$	c.	$3.7 + 6.3 = \underline{\quad\quad}$
b.	$81 + \underline{\quad\quad} = 100$	d.	$46.72 + \underline{\quad\quad} = 100$

Q 31. Here are some numbers.

2305	1106	790	2521	1097	1642	9025	3070
------	------	-----	------	------	------	------	------

Write the given numbers in this Venn diagram.



Q 32. Write a mixed number for each of the shaded sets of shapes.

a = $\frac{\quad}{\quad}$

b = $\frac{\quad}{\quad}$

c = $\frac{\quad}{\quad}$

d = $\frac{\quad}{\quad}$

e = $\frac{\quad}{\quad}$

f = $\frac{\quad}{\quad}$

Q 33. Kaley asked her classmates about their favorite types of music. The results are shown in the chart provided.

Make a frequency table of the data, then answers the question below.

Favorite Types of Music				
P	R	F	P	F
F	R	F	P	P
F	C	F	C	P
C	J	R	R	F
J	R	P	P	F

- a) Label the columns with **Tally and Frequency**.
- b) Complete the table using the data and answer the following questions.

Music		
Jazz (J)		
Rock (R)		
Country (C)		
Top 40 (F)		
Rap (R)		

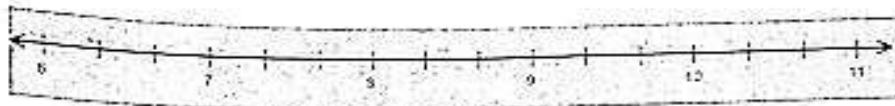
- a. What is the most popular type of music? _____
- b. What is the least popular type of music? _____
- c. How many students were polled? _____

Q 34 a) Locate the given mixed numbers on the number lines given below.

$$A = 9\frac{1}{3}$$

$$B = 7\frac{2}{3}$$

$$C = 8\frac{6}{9}$$



b) Put these fractions in order starting with the largest first.

$$\frac{2}{5} \quad \frac{1}{2} \quad \frac{2}{10} \quad 1\frac{3}{5} \quad \frac{6}{10}$$

c) Put these fractions in order from the smallest to largest.

$$\frac{5}{7} \quad \frac{5}{8} \quad \frac{5}{6} \quad \frac{5}{9}$$

$$\frac{6}{8} \quad \frac{7}{8} \quad \frac{4}{8} \quad \frac{3}{8}$$
