

Little star public school

Class-VI sample paper for Annual examination 2019-2020

m.m-80

sub-math

time-3hrs

No-1 Fills in the blanks:-

- (a) The longest chord of the circle is.....
- (b) A.....is a parallelogram in which all sides are equal.
- (c) A sphere has vertices.
- (d) Concentric circles are circles having.....

No-2 write for true and F for false:-

- (a) The perimeter of a circle is known as its circumference.
- (b) A right circular cylinder has a circle at the bottom.
- (c) The diagonal of a rectangle are not equal.
- (d) The diagonal of a rhombus bisect at 80° .

No-3 matches the following:-

- | | |
|---|-------------------|
| (a) More than half a revolution | (1) straight line |
| (b) one-fourth of a revolution | (2) obtuse angle |
| (c) Between $\frac{1}{4}$ and $\frac{1}{2}$ of a revolution | (3) reflex angle |

No-4 using a ruler and a compass construct-

- (a) 46° and hence 23.5° (b) 150° and hence 68.5° .

No-5 (a) 8 more than 3 times x.(express in algebraic expression)

- (b) If $c=45$, then $9/5c + 42 = \dots\dots\dots$
- (c) Pick out the solution from the value given in the bracket.
 - (i) $5x+3=10$ (5, 2, 0) (ii) $x/4=3$ (14, 15, 3)
- (d) Identify which of the following are equation:-
 - (i) $4x+3=7$ (ii) $5/7-1>x$ (iii) $15x/7=12$
- e) If 8 tickets to a fair cost 192, find the cost of 12 tickets.
- f) A truck travels 61320 miles in a year .How much does it travel in a day?

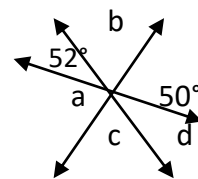
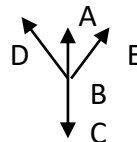
No-6 (a) find the value of x (i) $51:x::81:108$ (ii) $6:7::x:1400$

- (b) Mita earns Rs 4800 per month. If the ratio of her expenses to her saving is 5:3, find her saving?
- (c) A bus travel 61320 miles in a year. How much does it travel in a day?

No-7(i) finds the measures of angles a, b, c & d in the adjoining figure: -

(ii) In the given figure, a, b & c are collinear points and $\angle DAB = \angle EBA$.

- (a) Name two linear pairs. (b) Name three acute angles



No 8. Using a protractor, draw an angle of measure 175° . Bisect this angle and measure it.

No 9. Construct an angle whose measure is 90° and then construct its bisector.

No- 10 (i) if an angle of a triangle is 90° and the sides containing that angle are equal. Find the other angles and identify the type of angles.

(ii) Write the properties of the following:-

- (a) Rhombus (b) kite (c) trapezium

(iii) A triangle is formed with angle in the ratio of 1:2:3. Identify the smallest angle. Also name the type of the triangle formed.

No 11. Draw the following 3D shapes.

- a) Pyramid with triangular base.

No 12. How many triangles can be formed by drawing the diagonals of a quadrilateral?

No-13. Draw AB=5.5cm. Mark AP=3cm. Construct PQ perpendicular to AB.

No14. Find the complement and supplement of the following angles.

- a) 42° b) 69° c) 28°

No15. The two angles that will be formed between the two hands of a clock at 21:00 hours are:

- a) $60^\circ, 60^\circ$ b) $540^\circ, 90^\circ$ c) $90^\circ, 90^\circ$ d) $90^\circ, 270^\circ$

No-16 (i) Find the cost of tilling a field which is 270m long and 35m wide at rs 5.35 per square meter.

(ii) The length of a rectangle is 5.5cm and its perimeter is 19cm.find its breadth.

(iii) A square garden measures 67m.find its perimeter and area

No 17. The area of a square is 25 m², find its parameter.

No 18. What will be the increase in the area of a rectangle if its length remains the same and breadth is doubled?

No-19 (i) draw a bar graph using suitable scale:-

Plan	1st	2nd	3rd	4th	5th	6 th
Expenditure in crores	302	704	1102	2400	6000	16000

(ii) Draw a pictograph for the following data on the different brands of shampoo used. Take an appropriate scale:-

Shampoo	A	B	C	D	E
Number of people	15	24	10	25	10

No 16. Draw a pictograph for the following data on the books liked by students. Take an appropriate scale.

Books	Mystery	Horror	comedy	Science Fiction	Classics
No. Of students	10	12	6	8	10

No-20. Finds all the lines of symmetry for these regular polygons.

(a)

Equilateral



b)

Square



No-21. Which letters of the English alphabets have vertical and horizontal symmetry?

- a) H b) A c) O d) C e) X f) I g) B h) S