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Southern Provincial Department of Education

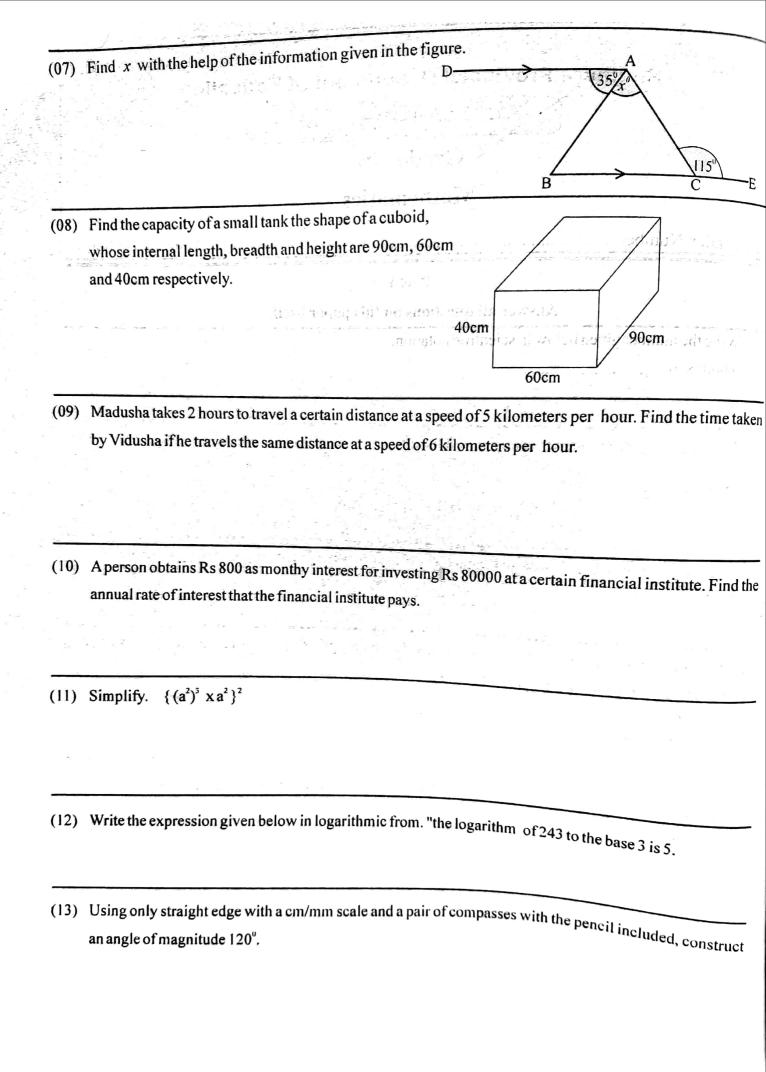
Year End Test-2017

Grade - 09

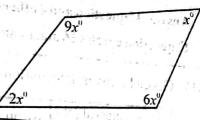
Mathematics

 Write the number given below in scientific to 0.00038 = Simplify and give the answer in its simplest (\frac{1}{3} + \frac{1}{4}) = \frac{1}{12} Find the 2nd term and the 7th term of the number 10.0003 in the 10.0	form.	per itself.	
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2) Simplify and give the answer in its simplest $\left(\frac{1}{3} + \frac{1}{4}\right) = \frac{1}{12}$ 23) Find the 2 nd term and the 7 th term of the number			
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$\frac{3}{2n-1}$	er pattern which t	he following ger	neral term represents.
2n - 1			
04) A broker who charges a 5% commission commission. Find the selling price of the ho		rice of a house	, was paid Rs 48 000 a
,		Ç.	
(05) Draw a sketch with the relevant measurement	nts to show the area	of rectangle rep	resented by
(a+5)(a+2)			

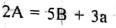
(06) Using the knowledge of factors find the value of $(6.5^2 - 3.5^2)$.



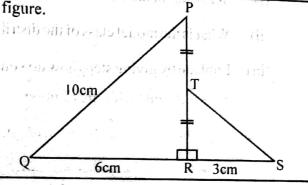
(14) The magnitude of the angles in the quadrilateral given are expressed in terms of x. Find x.



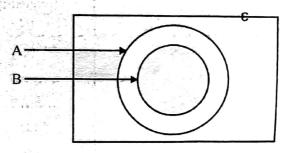
(15) Make "a" the subject of formula. 2A = 5B + 3a



(16) Find the length of TS using the information given in the figure.



(17) Shade the region denoted by $(A \cup B)'$



- (18) For a regular polygon in which one exterior angle is 18°, Find
 - (i) The number of sides
 - The magnitude of one interior angle. (ii)
- (19) The figure shows a frame formed by bending a wire obtaining a semicircular shape. If the diameter of it, is 21cm find the total length of the wire used.



(20) A scale used by a surveyor to draw a plan is given as 1:1000. The length and the breadth of a rectangular land in the plan are 1cm and 3cm respectively. Find the actual length and the breadth of the land.

...ligd: of the angles in the quadrillax

- Answer I"question and 4 other questions. 1" question carries 16 marks and other questions carry 11 marks each.
- below is distribution showing the number of eggs sold a day in a ertain shop, during 60 days.

(01) Given below is trist. Class interval (No	01-09	10-18	19-27	28-36	37-45	46-54	55-63	64-72	73.01	82-90
of eggs sold a day) frequently (No of days)	6	8	10	14	7	6	4	2	2	-

- What sort of data is represented in the distribution above. (i) 在中国的国际部的国际分别是国际设置1°501
- What is the model class of the distribution. (ii)
- Enplane by giving steps how do you find the median class of a distribution and mention the median class relevant to this distribution.
- (iv) Copy the table given below. Complete them by using the information included in the table above.

Class interval	frequently (f)	Mid value (x)	fx
1-9	6	5	30
10 - 18			
19 - 27			
28 - 36	14	•••••••••••••	
37 - 45		32	448
46 - 54	***************************************	***********	
55 - 63	4	************	
64 - 72	4	59	236
73 - 81	***************************************	***************************************	
82 - 90	.,	***************************************	
	1	86	86
	$\Sigma f = \dots$		$\Sigma fx = \dots$

Answer the questions using the table that you have completed.

- Find the total no of days.
- Find the total no of eggs sold within those days.
- (iii) What is the formula that is used to find the mean number of eggs sold a day. (iv) Round off the value obtained as the mean number of eggs sold a day, to the nearest whole number.

$$1\frac{6}{7}$$
 of $(1+\frac{8}{13}) \div 1\frac{1}{2}$

- Madawa has invested Rs 120 000 in a certain financial institute which pays 12% simple interest (b) per year. After 2 years the rate of interest was decreased to 10% by the institute. Some how Madawa has not decided to withdraw the account and the account was remained untill 5 years were completed.
 - Find the interest obtained by Madawa in first 2 years. (i)
 - Find the interest obtained by Madawa in next 3 years.
 - (iii) After completing 5 years, How much money is remained in total in his account.
- = {a,b,c,d,e,f,g,h}

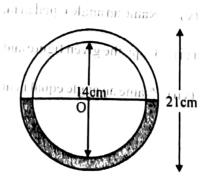
$$A = \{a,d,f,h\}, B = \{a,f\}$$

- Represent the sets mentioned above in a year diagram. (i)
- (ii) By listing elements, express the set B'
- (iii) By listing elements, express the set $(A \cup B)$
- (iv) Represent the relation between the sets A and B, in set notation.
- Difine "the sample space" (b) (i)
 - Write the relevant sample space of the experiment "Tossing a fair die numbered 1 to 6 in its (ii) faces"
- A bag contains 7 identical balls which are in two colours. 4 of them are red and they are marked as (c) R, R, R, and R. Other 2 balls are blue and they are marked as B, and B. When a ball is taken randomly, find the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of obtaining a ball, of bottom of the probability of the pr
 - (i) being a red one
- (ii) being a blue one. in the triangle ABD, C is a point on AD such t
- (iii) being R..

Find the magnifuda

(i) Lactorize **608**-65-

- Using the information given in the figure in done **(i)** (04) (a) build up an expression to represent the total surface area of the prism, If AE=a, AD=c, ED=b and AB=h
 - Taking a = 8 cm and b = 6 cm show that (ii) c = 10cm
- Giving reasons, and the meanied
- If h = 15cm, find the total surface area of the prism. to the higgs or soil but I (iii)
- Find the volume of the prism. (iv)
- "O" is the centre of two concentric circles. (b) The diameters of the small and big circles are 14cm and 21 cm respectively. Find the area of the shaded region.



(i) Factorize.
$$x^2 + 6x - 72$$
 (ii) Solve. $2(\frac{x}{2} - 2) = 10$

person elements of the simultaneous equations mentioned below.

2x + 3v = 9 years the rate of interest was decreased to 10% by the institute, somehous ment and the most decided to withdraw the account and the account to a sold on the rest of the sent with a sent of the sent with a sent of the sent of (i) $\frac{5a}{3} - \frac{a}{3} = \frac{2a}{3}$ (ii) $\frac{7+x}{x-1} - \frac{x}{x-1}$ by Aquito

(i) Write the gradients of the following functions separately: y = 2x - 1,

(ii) Copy and complete the table given below which are prepared to draw the graphs of the

functions, y=2x-1 and y=-x+2

x	2x-1	y
-2	2 x (-2) = 1	57.51
1	2 x (-1) - 1	-3
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- *	(-x+2)	$y^{(h)}$
0	-0 + 2	2
2	-2+2	0
3 4	-4+2	

Using the coordinates in two tables above draw the graphs of the functions y=2x-1 and y=-x+2 in a same Cartesian plane.

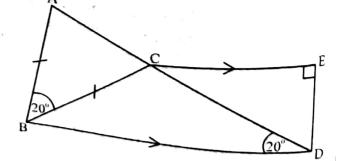
(iv) Write the coordinates of the point of intersection of two graphs as an ordered pair.

The straight lines denoted by x=3 and x=1 in a same Cartesian plane.

(ii) Shade the region denoted by $1.53 \le ... \le 1$ (iii) being R..

(07) In the triangle ABD, C is a point on AD such that BA = BC. CE is a line drawn through C parallel to BD CE and DE are perpendicular to each other, $\angle ABC = \angle ADS = 20^{\circ}$

- Find the magnitude of A (i)
- Find the magnitude of CBD
- Giving reasons, find the magnitude of DCE (iii)
- Find the magnitude of CDE (iv)
- Name an angle equal in magnitude to CED (v)



Copy the given figure and construct a line through E parallel to CD to meet BD produced at F. (vi) (vii) Name an angle equal in magnitude to DEF and find its value