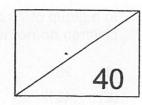
Red Swastika School Primary 6 Class Test 2 Mathematics

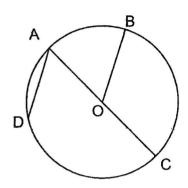


ass: Pr 6 /			Duration: <u>50 minutes</u> (Use of calculators is not allowed)
		Pare	rent's Signature:
them	n is the		For each question, four options are given. One of choice (1, 2, 3 or 4) and write your answer on the (20 marks)
1		e number of red apples to the no t fraction of all the apples in t	number of green apples in a basket is 2 : 5 the basket are red?
	(1)	<u>2</u> 5	
	(2)	<u>5</u>	
	(3)	<u>2</u>	
	(4)	7 2	
2		usual price of a book is \$18. the discount given.	3. During a sale, there was a 10% discount.
	(1)	\$1.80	
	(2)	\$2.00	
	(3)	\$16.20	
	(4)	\$19.80	

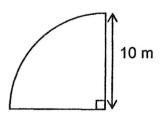
- In a group of 70 children, 42 of them wore glasses. What percentage of the children **do not** wear glasses?
 - (1) 28%
 - (2) 40%
 - (3) 42%
 - (4) 60%

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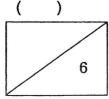
The figure below shows a circle with centre O. Which of the following shows the correct way to find the area of the circle?



- (1) $\pi \times AD \times AC$
- (2) $\pi \times AD \times OA$
- (3) $\pi \times OC \times AC$
- (4) $\pi \times OA \times OC$
- 5 Find the perimeter of the quarter-circle. (Take $\pi = 3.14$)



- (1) 15.7 m
- (2) 35.7 m
- (3) 78.5 m
- (4) 82.8 m



- 6 Mr Ng spent 80% of his money on a laptop and had \$1200 left. How much did Mr Ng spend on the laptop?
 - (1) \$300
 - (2) \$1500
 - (3) \$4800
 - (4) \$6000

A box contains beads of three different colours. $\frac{1}{4}$ of the beads are black. The ratio of the number of yellow beads to green beads is 1:5. What is the ratio of the number of black beads to yellow beads to green beads in the simplest form?

- (1) 1:1:5
- (2) 2:1:5
- (3) 3:1:5
- (4) 3:2:10

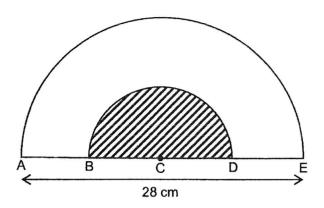
Penny wanted to mix red and blue paint to make purple paint. The ratio of the amount of red paint used to the amount of blue paint used was 3:4. Penny used 120 \(\ell \) of red paint, how much purple paint did she make?

- (1) 90 &
- (2) 160 &
- (3) 210 ℓ
- (4) 280 %

6

)

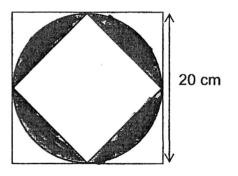
The figure is made up of 2 semi-circles. AB = BC = CD = DE. Find the area of the **unshaded** part. (Take $\pi = \frac{22}{7}$)



- (1) 77 cm²
- (2) 231 cm²
- (3) 308 cm²
- (4) 462 cm²

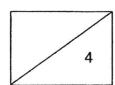
()

10 The figure below shows a circle and two squares. One side of the larger square is 20 cm. Find the area of the shaded parts in terms of π .



- (1) $(20 \pi 100) \text{ cm}^2$
- (2) $(20 \pi 200) \text{ cm}^2$
- (3) $(100 \pi 100) \text{ cm}^2$
- (4) $(100 \pi 200) \text{ cm}^2$

()



Questions 11 to 16 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

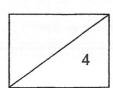
· (12 marks)

Pete scored a total of 90 marks for his Math test in October. This was a 20% increase from the marks he scored for his Math test in May. How many marks did he score for his Math test in May?

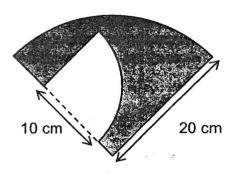
Ans: _____

A baker baked 30 curry buns and some kaya buns in the morning. After selling 5 curry buns and 30% of the kaya buns, she had a total of 67 buns left. How many kaya buns did the baker bake?

Ans: _____

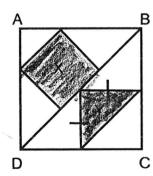


Timothy had a piece of cardboard in the shape of a quarter-circle. He cut out a smaller quarter-circle from the cardboard as shown below. Find the perimeter of the remaining piece of cardboard. (Take $\pi = 3.14$)

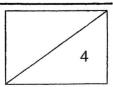


cm

ABCD is a square. The shaded parts, square X and right-angled triangle Y, have corners lying on either sides of square ABCD or on the line BD. What is the ratio of the area of square X to the area of triangle Y?



Ans:	
/ WID.	

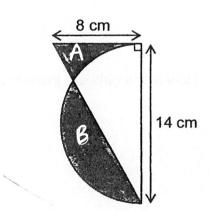


After a discount of 20%, the price of an electric iron is \$160. Shoppers who pay by cash are given an additional discount of \$10. What is the total percentage discount given to shoppers who paid by cash for the electric iron?

Ans:	%

The figure below is made up of a semicircle and a right-angled triangle. The diameter of the semi-circle is 14 cm. The area of the shaded region A is 16 cm². Find the area of the shaded region B.

(Take $\pi = \frac{22}{7}$)



Ans:		And the state of	cm ²

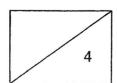
Questions 17 and 18 carry 4 marks each. Show your working clearly and write your answers in the spaces provided. (8 marks)

- There is an equal number of students in the Robotics Club and the Art Club. There are 40 more boys than girls in the Robotics Club. There are 20 more girls than boys in the Art Club. 55% of all the students in the Robotics Club and Art Club are boys.
- (a) How many girls are there in both the clubs?

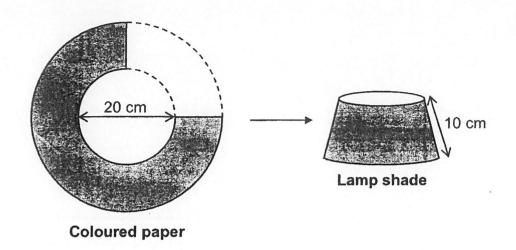
Ans:[3i

(b) How many girls are there in the Robotics Club?

Ans:	[1r	n
	 f	•



18 A quarter of a piece of circular coloured paper had been cut out as shown below.

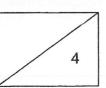


The remaining piece of coloured paper was then folded to form a lamp shade without overlapping. What is the area of the lamp shade in terms of π ?

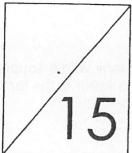
Ans:		[4m]

End of Paper

9



Red Swastika School Primary 6 Mathematics Milestone Check (5) Topic: Volume of Solids and Liquids



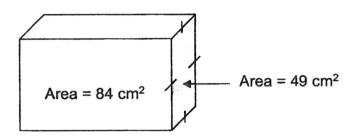
Name:	_()
Class: Pr 6	Date:
For Questions 1 to 5, each question carries	s 2 marks. All workings must be shown clearly.
1. A cube has a volume of 125 cm ³ . W	hat is the length of the cube?
	Ans: cm
2 Find the height of the cuboid below if	f its volume is 960 cm ³ .
Shaded area = 6	64 cm ²

Ans: _____ cm

3. A tank with a square base of side 50 cm, contains 10 ℓ of water. Find the height of the water in the tank.

Ans:		cm	
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4. Find the volume of the cuboid.



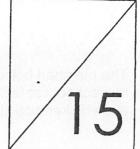
Ans:	cm ²

		•	

Question 6 carries 5 marks. All workings must be shown clearly. 6. Water flows from a small tap at a rate of 30 litres per minute and a big tap at a rate of 40 litres per minute. If the 2 taps are turned on at the same time for 5 minutes, the water from both taps can fill a tank, 50 cm long and 40 cm wide, completely. What is the height of the tank? Ans: ____

THE END----

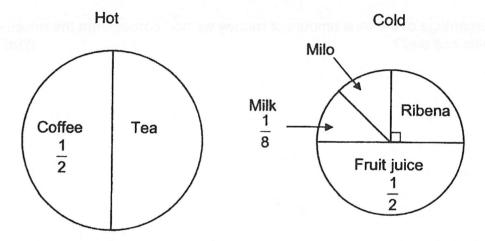
Red Swastika School Primary 6 Mathematics Milestone Check (6) Topic: <u>Pie Charts</u>



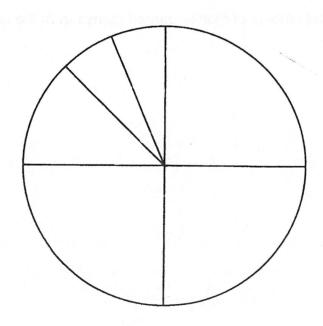
Name:	()	10
Class: Pr 6	Date:	

Question 1 carries 1 mark, Questions 2 to 6 carry 2 marks each and Question 7 carries 4 marks. Show your working clearly and write your answer in the spaces provided.

 The pie charts below show the different types of drinks the drink stall vendor sells. He sells an equal number of hot and cold drinks.

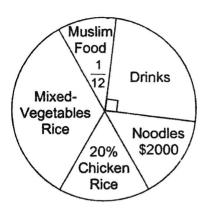


Combine the total number and types of drinks (hot and cold) he sells. Then complete the following pie chart to show <u>all</u> the different types of drinks that he sells. Label the drinks in the chart below clearly. [1m]





The pie chart below represents the average amount of money earned by 5 food stalls in a school canteen. Half of the amount earned comes from mixed-vegetable rice stall and chicken rice stall. Use the information below to answer questions 2 to 7.



2. What percentage of the total amount of money earned comes from the mixed-vegetables rice stall? [2m]

A no:	0/
Ans:	70

3. What fraction of the total amount of money earned comes from the noodles stall? [2m]

Ans: _____

	the amount of money earned by the drinks stall?	. [2m]
		•
	Ans:	
5.	How much money was earned from all the 5 food stalls?	[2m]
	Ans: \$	

6.	How much more money was earned by the mixed-vegetables rice stall than the chicken rice stall? [2m]	
	•	
	Ans: \$	
7.	Mr Lee sells one plate of Muslim food for \$1.00. If he increases the selling price by 50% per plate and sold the same number of plates of Muslim food, how much money will he collect? [4m]	
	Ans:	
		-
	and the END and th	

YEAR : 2023

LEVEL: PRIMARY 6

SCHOOL: RED SWASATIKA SCHOOL

SUBJECT: MATHEMATICS

TERM: PAPER 2

CLASS TEST 2

Q1	3	Q2	1	Q3	2	Q4	4	Q5	2
Q6	3	Q7	2	Q8	4	Q9	2	Q10	4

011		
Q11		
•	$100\% = \frac{90}{120} \times 100$	
	= 75	
Q12	30 – 5 = 25	
	67 – 25 = 42	
	70% = 42	0
	$100\% = \frac{42}{70} \times 100$	22
	= 60	
Q13	3.14 + 20 + 15.7 + 10 + 10	
	= 51.4 + 15.7 + 10 + 10	
	87.1	
Q14	4:5:9	
	16:20:36	
	1:3:4	
	9:27:36	
	Ans: 16:9	
Q15	80% = 160	
	$100\% = \frac{160}{80} \times 100$	
	= 200	
	$\frac{50}{2}$ x 100	
	200	
Q16	$30-5=25$ $67-25=42$ $70\% = 42$ $100\% = \frac{42}{70} \times 100$ $= 60$ $3.14+20+15.7+10+10$ $= 51.4+15.7+10+10$ 87.1 $4:5:9$ $16:20:36$ $1:3:4$ $9:27:36$ $Ans:16:9$ $80\% = 160$ $100\% = \frac{160}{80} \times 100$ $= 200$ $\frac{50}{200} \times 100$ $= 25\%$ $B+C=\frac{1}{2} \times \frac{22}{7} \times 7 \times 7 = 77$ $A+C=\frac{1}{2} \times 14 \times 8$ $= 56$ $56-16=40$ $B=77-40=37 \text{cm}^2$ (a) Boys: 2u + 50 (55%0 Girls: 2u + 30 (45%0)	<u> August</u>
	$A + C = \frac{1}{2} \times 14 \times 8$	
	= 56	
	56 – 16 = 40	
	$B = 77 - 40 = 37 \text{cm}^2$	
Q17	(a) Boys : 2u + 50 (55%0	
1	3.1.2.2.3.3.0	
1	10% = 20	
	$45\% = \frac{20}{10} \times 45 = 90$	
	b) 2u + 30 = 90	×
1 1	2u = 90 - 30 = 60	
	Robotic girls = 30	

ì	Area of shaded = $\frac{3}{4}$ big - small = $\frac{3}{4}$ x \prod x 20 x 20 - $\frac{3}{4}$ x \prod x 10 x10 = 225 \prod
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VOLUME OF SOLIDS AND LIQUID

Q1	$\sqrt[3]{125} = 5$	Q2	960 ÷ 64 = 15cm
Q3	$\frac{10000}{10000} = 4$	Q4	84 ÷ 7 = 12
	50 x 50		12 x 7 x 7 = 588
Q5	50 ÷ 2 = 25	Q6	40 + 30 = 70
	40 ÷ 2 = 20		70 x 5min = 350
	15 ÷ 2 = 7R1		V=LXBXH
	25 x 20 x 7 = 3500		350 = 50 x 40 x <i>x</i>
			$x = 350 \div 2000$
			≈ 5.714
			= 5.40cm 5.70cm

PIE CHARTS

PIE Ch	HARTS		
Q1		Q2	30%
	Milk Mile Coffee		30%
	Ribena		St. 366 Set. Soll
	Fruit Suice Tea		Our our
	led led		0, 06 %.
			-60° 00°
Q3	60 4 15 12 18	Q4	M:D
	60 60 60 60 60		5:25
	$=\frac{11}{60}$		1:3
Q5	$\frac{1}{6}$ = 2000	Q6	100% : 12000
		10 1	10% = \$1200
	$\frac{6}{6}$ = 2000 x 6 = \$12000	1	
Q7	$\frac{\frac{50}{100}}{100} \times 1 = 0.50$ $\frac{1}{1} \div 2 = \frac{1}{1}$	12	
	$\begin{vmatrix} \frac{50}{100} \times 1 = 0.50 \\ \frac{1}{12} \div 2 = \frac{1}{24} \\ 1 & 1 & 1 \end{vmatrix}$		
	$\frac{1}{12} \div 2 = \frac{1}{24}$		*
	$\frac{1}{12} + \frac{1}{8} = \frac{1}{24}$		
	100 ÷ 8 = 12.5		
	$\frac{12000}{100}$ x 12.5 = \$1500		•

2 GN3