## TAO NAN SCHOOL PRIMARY SIX MATHEMATICS MID-YEAR EXAMINATION - 2004

NAME: ( ) DA

DATE: 12 May 2004

CLASS:

PRIMARY 6\_\_'\_

TIME: 7.50 a.m. - 10.05 a.m.

PARENT'S SIGNATURE:

MARKS:

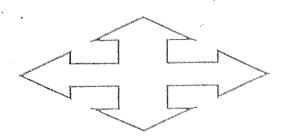
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Section A (25 marks)

Questions 1 to 5 carry 1 mark each. Questions 6 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

- 1. Which of the following numbers is the largest?
  - 1) 0.7
  - 2) 0.62
  - 3) 0.098
  - 4) 0.505

2.



How many lines of symmetry does the above figure have?

- 1) 1
- 2) 2
- 3) 3
- 4) 4

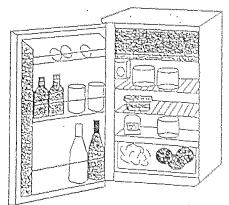
- 3. What is the value of  $8 + 32 \div 2 \times 4$ ?
  - 1) 5
  - 2) 12
  - 3) 72
  - 4) 80
- 4. Express 11% as a decimal.
  - 1) 0.011
  - 2) 0.11
  - 3) 1.10
  - 4) 11.0
- 5. If  $\frac{9}{6} = 3$ : \_\_\_\_, the missing number in the box is \_\_\_\_\_
  - 1)
  - 2) 2
  - 3) 3
  - 4) 6
- 6. Complete the following number pattern.

$$0.5, \frac{1}{3}, 0.25, \dots, \frac{1}{6}$$

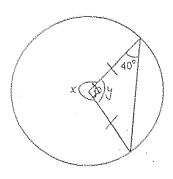
- 1) 0
- 2) 0.125
- 3). 0.2
- 4) 0.5

- 7. A tailor used 4 m of cloth to make a dress.

  What is the maximum number of dresses that he can make from 21 m of cloth?
  - 1) 5
  - 2) 6
  - 3) 3
  - 4) 4
- 8. Which of the following cannot be the internal dimensions of this 120-litre refrigerator?

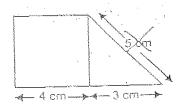


	Length	Width	Height
1)	40 cm	25 cm	120 cm
2)	40 cm	30 cm	100 cm
3) .	50 cm	30 cm	80 cm
4)	60 cm	30 cm	100 cm



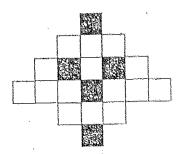
In the figure above, not drawn to scale. O is the centre of the circle. Find  $\angle x$ .

- 1) . 1400
- 2) 260°
- 3) 270<sup>0</sup>
- 4) 320<sup>0</sup>
- 10. A train travels at 25 m per second. How many kilometres does it travel in 50 minutes?
  - 孙 0.5
  - 级 1.25
  - 3) 75
  - 4) 1250
- 11. Find the fatio of the area of the square to the area of the triangle.



- 1) 4:3
- 2) 3:8
- 3) 8:3
- 4) 32:15

12. How many more squares in the figure below must be shaded so that only 30% of the figure is left unshaded?



- 1) 1
- 2) 2
- 3) 6
- 4) 9
- 13. The figures are made up of identical squares. Find the number of such squares for the 10<sup>th</sup> figure.







A ...

Figure 1

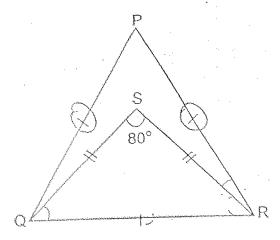
Figure 2

Figure 3

Figure 10

- 1) 90
- 2) 100
- 3) 132
- 4) 144

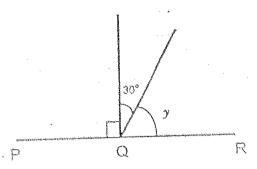
14. In the figure below,  $\angle QSR = 80^{\circ}$ . Find  $\angle PRS$ .



- 1) 100
- 2) 15<sup>0</sup>
- 3) 20<sup>0</sup>
- 4) 50°
- 15. Rena was saving some money to buy a handphone.
  In the first month, her savings were \$30 less than half the price of the handphone.
  She saved \$150 in the second month and had just enough money to buy the handphone.
  How much was the handphone?
  - 1) \$120
  - 2) \$150
  - 3) \$240
  - 4) \$270

NAME:	( ) CLASS: P6
SECTION B (20 marks)  Questions 16 to 35 carry 1 mark each, provided. Give your answers in the units st	Write your answers in the spaces tated.
16. Write in numerals: Twenty-five thousand and thirty	
• • • • • • • • • • • • • • • • • • •	Answer:
17. Find the sum of 31, 2.7, 5.02.	
•	
	Answer:
18. Express 13kg 13g in kilograms.	
	Answer:kg
19.	
	10 cm
15 cm	as a volume of $1200  \text{cm}^3$
The above cuboid, not drawn to scale, h What is the area of the shaded part?	as a volume of 1209, cm.
	Answer

20. In the figure below, PQR is a straight line. Find  $\angle y$ .



Answer:

21.



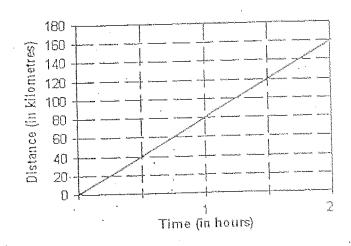
The above solid has \_\_\_\_\_ faces

Answer:

22: Express  $\frac{14}{25}$  as a percentage.

Answer: %

The graph below shows the distance covered by a truck in 2 hours. Use it to answer Questions 23 and 24.



23. What was the average speed of the truck?

Answer km/h

24. At this speed, how far would the truck travel in 3h 45 min?

Answer: km

25. What is the missing number in the box?

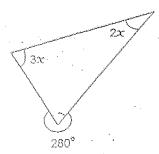
 $582\ 347 = 5 \times 100\ 000 + 80 \times$  +  $2 \times 1000 + 3 \times 100 + 4 \times 10 + 1 \times 7$ 

Answer:

26.  $\frac{2}{3}$  of a number is 32. Find the number.

Anśwer:

27.



In the figure above, not drawn to scale, find the value of  $\boldsymbol{x}$ .

28. How many cubes of sides 2 cm are needed to build a cuboid measuring 10 cm by 20 cm by 40 cm?

Answer: \_\_\_\_\_\_

The average of the 4 numbers above Which number should be removed	e is to	s 11. obtain	an	average	of	12	for the	e remai	ining
numbers?									

Answer:	

30. If 40 cm<sup>3</sup> of a solid weighs 200 g, find the weight of 60 cm<sup>3</sup> of the solid.

 g

31. When each side of a 20-cm square is increased by 20%, the area becomes cm<sup>2</sup>.

•	479
Answer.	cm²
	W- 5

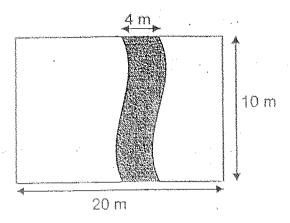
32. If n = 4, what is the value of 3n + 5?

Answer:	
MUSMAL	 

33. The last digit of the sum of 7 to 26 is \_\_\_\_\_

7, 8, 9, 10, ..., 24, 25, 26

Answer:	4 w
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The figure shows a rectangular field, 20 m by 10 m. It has a path, 4 m wide, running through it. Find the area of the path.

•				
		400		
Answer:				m
the state of the s	 		20.000	

35. The ratio of Dilly's age to Taffy's age is 4:3.
Dilly is 28 years old now.
In how many years' time will their combined age be 57?

NAME:	_ ( ) CLASS: P6
Section C (55 marks) For Questions 36 to 50, show your working and write your answers in the spaces proshown in brackets [] at the end of each questions.	g clearly in the space below each question ovided. The number of marks available is estion or part-question.
36. Megan jogs at an average speed of 12 How long will she take to complete 2.4	20 m/min. 4 km?
	Answer:[2m]
37. If a Gameboy cartridge costs \$68, wh cartridges you can buy with \$2420?	

nswer: \_\_\_\_\_\_[2m]

38. Jenny weighs c kg.
Her mother is 3 times as heavy as she is.
What is their average weight?

Answer: [2m]

Regan has thrice as many stamps as Harry.
The total number of Regan's and Harry's stamps is twice that of Andrew's.
The three of them have a total of 210 stamps.
How many more stamps does Regan have than Harry?

Answer: . [3m]

40. The table below shows the favourite sports of 400 pupils.

Activity	Percentage
Soccer	25%
Badminton	20%
Netball	?
Swimming	40%

a) What percentage of the pupils chose netball as their favourite sport?

$\alpha_J$	411101(bolgovia)	'	, ,	9	š	
h)	How many more	pupils	preferred	swimming	$\Omega$	Societt

•	•					Answer	'S:	400			[1m] [2m]
1.		narallel i	to AB.	- Join CB	•	∵ awing a li [2m] e of ∠ CB			long,	such th	at CD is
	** .		D					, , , , , , , , , , , , , , , , , , ,			. · · · · · · · · · · · · · · · · · · ·
			·	<u>t</u>	<u> </u>	man san san san san san san san san san s		~ B			

Tina us	$ed \frac{1}{2}$	of her	pending to money. lid each o			٠				
									· . ·	
· .										

Answers:	Tina	us as	 [2m
	Raine		 [2m]

43.	There are 24 children. The ratio of the number of boys to the Each girl's monthly allowance is $\frac{5}{7}$ of t	he(boy's,
	If a boy's monthly allowance is (\$84) fire	nd the total monthly allowance of all the girls.
	· · · · · · · · · · · · · · · · · · ·	
,		
	,	
* .		
		Answer:[4n

- 44. Gina can paint a banner in 3 hours. Faizal can paint the same banner in 2 hours. If they work together,
  - a) how much of the banner will be completed in hour? b) how long will they take to paint the banner?

Answers:	a)	·	[2m]
	1-1		[2m]

45.	The cor	ntractor Later, I	started ne lower	r garden r turfing the ed the tur 260 to the garden v	e garden fing cost e contrac	to \$5 pe	er m <sup>2</sup> )	: Whole) gar	den.	
	vvnatis	s the ar	ea or un	garden (	VIIIOIT WAS	_				
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										[4m]

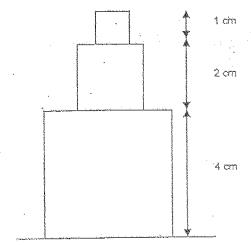
46. In a competition, there are 360 more boys than girls. The number of girls is 35% of the total number of children. How many children are there?  Answer:			
	46.	The number of girls is 35% of the total number of children.	
S.A.m.3			
Answer:		S.A. wor	7
		Answer:	IJ

47. 12 000 people attended a book fair.
3/5 of them were adults.
The number of male adults who visited the fair was 3/4 of the number of children.
a) How many female adults visited the book fair?
b) If the admission fees for the fair were \$5 per adult and \$3 per child, how much money was collected in all?

Answers:

[2m]

48. The figure shows the front view of an exhibit which is fixed to the ground. It consists of 3 solid cubes with dimensions as shown below. Find the exposed surface area of the figure.



Answer: \_\_\_\_\_ [5m]

٠	• .			-		. •	
49.	Jane and Peter star direction. After 2 ho Jane's average cycl What was Peter's a	ours, they were 5 ing speed was 5	km/h slowe			posite	
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			Answ	er:			[5m]

50. Mr Tan spent \$1972 on Beyblades and Barble dolls. He bought 3 times as many Beyblades as Barble dolls. Each doll cost \$10 more than each Beyblade. Mr Tan paid \$476 more for the Beyblades than the dolls. Find the cost of a Barble doll.

~ END OF PAPER ~ Have You Checked Your Work?

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MID YEAR EXAMI	NATION 2004	
1) 1	28) 1000	48) $100 \text{ cm}^2$
2) 2	29).8	49) 12 km/h
3) 3	30) 300	50) \$ 22,00
4) 2	31) 576	
5) 2	32) 17	
6) 3	33) 0	
7) 1	34) 40	
8) 4	35) 4	?
9) 2	36) 20 min	
10) 3	37) 35	
	38) 2c kg	
12) 4	39) 70	
13) 3	40) a) 15%	
14) 1	b) 60	
15) 3	41) 78°	
16) 25030		
17) 38.72	\$ 420	
18) 13 13/1		
19) 80 %	44) a) 5/6	
20) 60	b) 1 1/5 h	•
21) 3	45) 130 m <sup>2</sup>	
22) 56,	46) 1200	
23) 80	47) a) 3600	
24) 300	ъ) \$ 50400	
25) 1000		
26) 48		

27) 20