



**2001
SCHOOL
CERTIFICATE
TEST**

SAMPLE PAPER

**MATHEMATICS
SECTION 1**

**QUESTION/
ANSWER
BOOKLET**

Directions to students

1. You are allowed 30 minutes to answer Section 1.
2. Section 1: Questions 1-25 (25 marks)
3. Attempt **ALL** questions in Section 1.
4. Calculators are **NOT** to be used in Section 1.
5. The Sample Questions and Formulae Booklet may be used in Section 1.
6. Complete your answers to Section 1 in the separate Answer Sheet
7. Write your Student Number below.

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Directions to School or College

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School Certificate Trial Mathematics

1. Write 28.64937 correct to 4 decimal places.

2. Evaluate $5647.32 \div 1000$.

3. Find the value of $\sqrt{4} + \sqrt{9}$.

4. Write a **fraction** that lies between 0.25 and 0.5

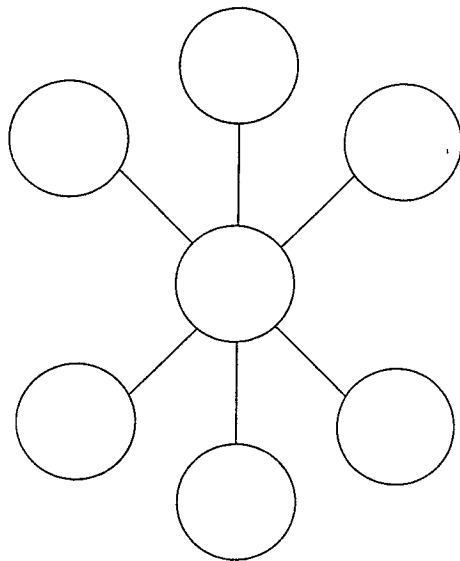
5. Evaluate 0.3^2

6. When you look at a normal 6 sided dice you find that the opposite sides always add to the same number. The number opposite 4 will be:-

7. Eastern Standard Time (EST) is two hours ahead of Perth time. If it is 5 past 3 (3:05) in Sydney what time is it in Perth?

8. Write $\frac{1}{5}$ as a decimal.

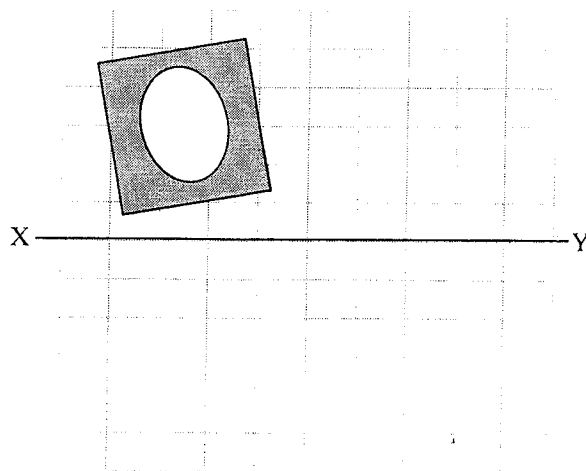
9. On the shapes below enter the numbers 1 to 7 so that the 3 numbers on each arm add to the same number:-



10. Sam earns \$720 per week. He saves \$160, spends \$180 on rent, \$240 on living expenses and \$140 on entertainment. He makes a pie chart to show his expenses. The size of the entertainment angle will be:

11. Julie divides \$15 between Sally and John in the ratio 3:2. John will get:

12. Reflect the photo frame in XY.



13. Jamie adds his marks for his 6 exams. He has a median of 60. Calculate the missing number

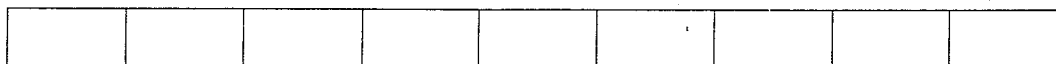
50	54	58		62	68
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14. Josselyn earns \$400 a week. She spends \$280. Calculate the percentage of her pay that is left.

15. Write a description of an octagon

16. 588 is given as $2^2 \times 3 \times 7^2$
41160 is given as $2^3 \times 3 \times 5 \times 7^3$.
Find the value of $41160 \div 588$

17. 5 borers are eating tunnels in a piece of wood. Chomper has eaten 10 mm into the wood. Nibbles is 20 mm ahead of Chomper. Chewy is 10 mm behind Nibbles. Chomper is 5 mm behind Gnawer. Grinder is 15 mm ahead of Chewy. Gnawer is 20 mm behind Grinder. The tunnel is shown below marked in 5 mm sections. Show and name each borer in the tunnel.



18. $\frac{12}{39}$ can be simplified. Give another fraction which will simplify to the same basic fraction.

19. If your heart beats 180 times a minute when you run how many times will it beat if you run for $1\frac{1}{2}$ minutes?

20. Consider the pattern

$$3^2 = 2 \times 4 + 1$$

$$4^2 = 3 \times 5 + 1$$

$$5^2 = 4 \times 6 + 1$$

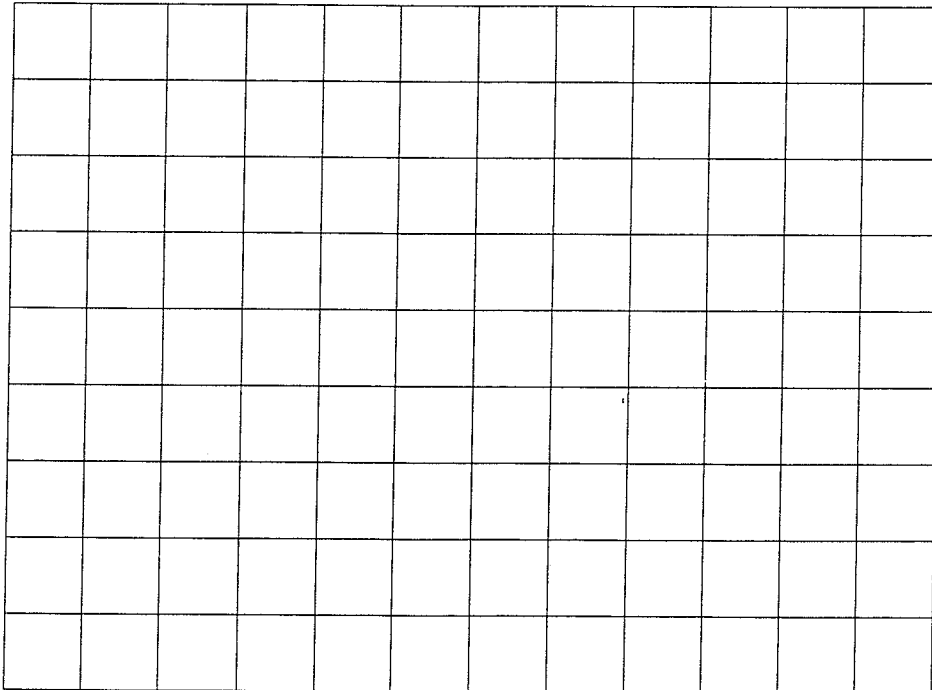
Use the pattern to complete:

$$99^2 = \square \times \square + \square = \square$$

21. A farmer looks at a paddock that has sheep and hens in it. He sees 15 heads and 42 legs. How many sheep are there?

22. Molly looks at her 5 exam marks. She has an average of 75%. She finds that if she arranges them in order there is always a difference of 3% between one mark and the next. What are the 5 marks?

23. On the grid below shade in a parallelogram (not a rectangle) with an area of 21 cm^2 .



24. Fred gets $\frac{1}{2}$ as much pocket money as Julie. Sam gets $\frac{1}{4}$ as much pocket money as Julie. If Sam gets \$8 a week how much does Fred get?

25. Construct an equilateral triangle ABC. AB is given.



End of Section 1