

Waverley College Year 10 Non-Calculator Exam (2006)

TIME ALLOWED: 30 MINUTES

- N.∤ A	\mathbf{ME}
130 43	IVIR
1361	17887

TEACHER:

INSTRUCTIONS:

Attempt all questions – answer in the space provided Write in blue or black pen only NO CALCULATORS MAY BE USED

/25	= %

1	Evaluate	400×12
	Evaluate	400メエム

2	$23.5 \div 8$	is 2.9375.

What is the value of \$23.50 ÷ 8 to the nearest 5 cents?

3 Evaluate 35.0.2

Write 7.4265 correct to 2 decimal places

5 Find the value of $2^3 + 3^2$

6 Write a decimal that lies between $\frac{1}{2}$ and $\frac{3}{4}$

17 -	Evaluate	0.4×0.2
~ "		

8
$$200 \times 15 + 200 \times 7 + 200 \times 8$$

11
$$5 \div \frac{1}{2} =$$

12 $42 \times 8 = 336$.

What is the value of 0.42×8 ?

13 The time on the digital clock appears as

.13:53

How many minutes are there until 4pm on the same day?

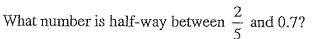
14 Trent has 40 footy cards. He lost $\frac{1}{4}$ of them and sold 50% of the remaining cards. How many cards did Trent have left?

15 Add $\frac{7}{100}$ to 5.934

Complete the table below using the rule A = n(n-1)

n	2	4	6
A	2	12	30

17



18

The expression $\frac{84}{\Delta+3}$ has a value between 8 and 10.

What is a possible value of Δ ?

19

The ratio of boys to girls in an Extension Mathematics class is 4:5. The number of girls increases from 15 to 18.

What is the new ratio of boys to girls?

20

Write $\frac{2}{3}$ as a repeating decimal

21

By how much is $\frac{1}{2}$ greater than $\frac{3}{8}$?

22 If $7! = 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1$ and $5! = 5 \times 4 \times 3 \times 2 \times 1$,

find the value of	7! 5!
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Jason is one year older than Mark and one year younger than Dean.

The sum of all their ages is 15.

Calculate the product of their ages.

The symbol ψ stands for 'double and add 3'.

For example,
$$\psi(4) = 2 \times 4 + 3$$

= 11

Evaluate	$\psi($	8)
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25 Consider the pattern

$$3^2 - 2^2 = 3 + 2 = 5$$

$$4^2 - 3^2 = 4 + 3 = 7$$

$$5^2 - 4^2 = 5 + 4 = 9$$

Use the pattern to complete:

$$29^2 - 28^2 = [29] + [28] = [57]$$

1. 4800

2. \$2.95

3, 175

4. 7.43

5. 17

6. Any 0.5.1 > 0.74

7. 0.08

8, 6000

9. 7th March 2003

10. 4

11, 15

12. 3.36

13. 127 mins

14. 15 cards

15. 6.004

16. 30 17. 0.55 18. Dis 6 or 7 19. 2:3 (12 boys)

 $22. \quad \frac{7.6.5.4.3.2.1}{5.4.3.2.1} = 42$

23. (x-1)+x+(x+1)=15 (x=5) . ages are 4, 5, 6 product = 120

25. 292-282=[29]+[28]=[57]