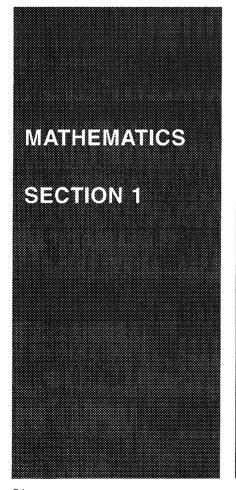


9 November Start 9.25 am



## **General Test Instructions**

• Preparation time: 5 minutes

• Working time: 2 hours

• The supervisor will tell you when to begin the test

• This test has TWO sections

• Attempt ALL questions

• There will be a short break between Section 1 and Section 2

Calculators may be used in Section 2 only

• The Sample Questions & Formulae Booklet may be used in both sections.

## Directions for Section 1

1 You have 30 minutes to answer Section 1

2 Section 1

Ouestions 1–25

(25 marks)

3 Calculators are NOT to be used in Section 1

• Complete your answers to Questions 1–12 on Section 1—Answer Sheet 1

 Complete your answers to Questions 13–25 on Section 1—Answer Sheet 2

## Complete your answers to Questions 1–12 on Section 1—Answer Sheet 1.

1  $2 \times 5 + 7 \times 10 =$ 

- (A) 80
- (B) 150
- (C) 170
- (D) 700

2 Write 57 263 to the nearest hundred.

- (A) 57 000
- (B) 57 200
- (C) 57 260
- (D) 57 300

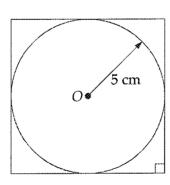
 $3 \qquad \frac{5}{100} + \frac{3}{10} =$ 

- (A) 0.305
- (B) 0.35
- (C) 0.503
- (D) 0.53

4 102 multiplied by 395 is about

- (A) 4000
- (B) 40 000
- (C) 400 000
- (D) 4 000 000

5



A circle with radius 5 cm is drawn in a square as shown.

The area of the square is

- (A)  $20 \text{ cm}^2$
- (B)  $25 \text{ cm}^2$
- (C)  $40 \text{ cm}^2$
- (D) 100 cm2

6 Which decimal is closest to 5.17?

- (A) 5.16
- (B) 5.175
- (C) 5.18
- (D) 5.2

7 Tran caught 30 fish but 2 out of every 3 were too small to take home.

How many fish were too small to take home?

- (A) 10
- (B) 12
- (C) 18
- (D) 20

8 Sylvia starts watching a video at 7:55 pm. The video runs for 135 minutes.

At what time will the video finish?

- (A) 9:10 pm
- (B) 9:30 pm
- (C) 10:10 pm
- (D) 10:20 pm

- 9 The fraction  $\frac{1}{3}$  is
  - (A) less than  $\frac{3}{10}$

(B) greater than  $\frac{7}{20}$ 

(C) equal to 0.3

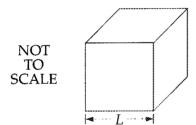
- (D) equal to 33%
- John is asked to find 24% of \$8.96. He enters into his calculator  $24 \div 100 \times 896$  and the display is 215.04.

The answer, to the nearest five cents, is

- (A) 215.05 cents
- (B) 21 505 cents
- (C) \$2.15
- (D) \$215.05

- 11 If  $\Delta < -3$ , then  $\Delta$  can have the value
  - (A) 0
- (B)  $\pm \frac{1}{3}$
- (C) -2
- (D) -4

12



The volume of a cube is 64 cubic centimetres.

The side length (*L*) of the cube is

- (A) 4 cm
- (B) 8 cm
- (C) 16 cm
- (D) 20 cm

## Complete your answers to Questions 13–25 on Section 1—Answer Sheet 2.

13 This timetable shows the times a bus departs from the terminal.

DEPARTURE TIMES						
am	4	53				
	5	10	35			
	6	08	28	43	58	
	7	14	28	43	58	
	8	13	28	47		
	9	17	47			
	10	17	47			

The first bus departs at 4:53 am. Paula misses the 8:47 am bus by 3 minutes.

How long does she wait for the next bus?

14	Find $2\frac{1}{2}\%$ of \$600.			
15	The fraction $\frac{61}{\Box}$ has a value between 4 and 7, where $\Box$ is a whole number.			
	What is a possible value for :?			
16	Each day Emily wears a jacket, a blouse and a pair of slacks.  She owns 2 jackets, 4 blouses and 3 pairs of slacks.  How many different combinations can she wear?			
17	Jim bought a salad roll for \$6.00. The next day the price had risen to \$6.60.			
	Find the percentage increase on the original price.			

18 Ice-cream must be stored at  $-4^{\circ}$ C. The temperature of a freezer is  $2^{\circ}$ C.

What change in temperature is needed to store ice-cream?

19 A bottle of wine costs \$10.

The wine itself costs \$6 more than the bottle.

What is the value of the bottle?

20



HOLIDAY FUN TRAVEL			
Package 1	Package 2		
5 nights, \$1200	7 nights, \$1400		
includes:	includes:		
return airfare	return airfare		
accommodation	accommodation		

What is the cost of a return airfare?

21 The recommended amount of a washing powder is one cup per wash.

If the recommended amount of powder is used per wash, then a box contains enough powder for 24 washes.

Theresa uses only  $\frac{3}{4}$  cup each wash.

How many washes will she get from a box?

22

$$1 = 1 = \frac{1}{2}(3\pm 1)$$

$$1+4 = 5 = \frac{2}{2}(6\pm 1)$$

$$1+4+7 = 12 = \frac{3}{2}(9\pm 1)$$

$$1+4+7+10 = 22 = \frac{4}{2}(12\pm 1)$$

Use the pattern to find the value of

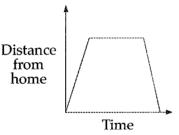
$$1 + 4 + 7 + 10 + \ldots + 25$$

Each of Questions 23, 24 and 25 may have MORE THAN ONE correct answer. Fill in EVERY answer for each of these questions on Section 1—Answer Sheet 2.

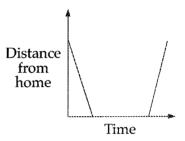
- $7.3 \times 5$  is the same as 23
  - (A)  $7.3 \times 10 \div 2$
- (B)  $7.3 \div 10 \times 2$
- (C)  $73 \div 0.5$
- (D)  $73 \times 0.5$
- Peta rides to school in the morning and back home in the afternoon. 24

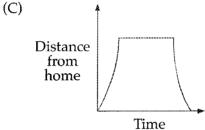
Which of the following could represent this information?

(A)

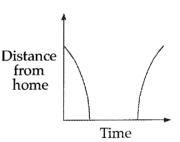


(B)

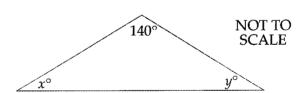




(D)



25



In the triangle, the values of x and y could be

(A) x = 40 and y = 0

x = 20 and y = 20

(C) x = 45 and y = 5

(D) x = 25 and y = 15

End of questions in Section 1 that may require you to fill in more than one correct answer.