YUYING SECONDARY SCHOOL
PRELIMINARY EXAMINATION
Secondary 4 Express / 5 Normal Academic

NAME

CLASS

REG. NO

MATHEMATICS

4052/01

Paper 1

20 August 2025

2 hours 15 minutes

Candidates answer on the Question Paper.

Setter : Mdm Lathamagesh
Vetter : Ms June Ho

READ THESE INSTRUCTIONS FIRST

Write your name, class and register number on the work that you hand in.
Write in dark blue or black pen.
You may use a pencil for any diagrams or graphs.
Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **all** questions.
The number of marks is given in brackets [ ] at the end of each question or part question.

If working is needed for any question, it must be shown with the answer.
Omission of essential working will result in loss of marks.
The total of the marks for this paper is 90.

The use of an approved scientific calculator is expected, where appropriate.
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.
For π, use either your calculator value or 3.142.

For Examiner's Use	
Total	90

This document consists of **23** printed pages.

Downloaded from SingaKids.com

Mathematical Formulae

Compound interest

$$\text{Total amount} = P\left(1+\frac{r}{100}\right)^n$$

Mensuration

$$\text{Curved surface area of a cone} = \pi rl$$

$$\text{Surface area of a sphere} = 4\pi r^2$$

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

$$\text{Area of triangle } ABC = \frac{1}{2}ab\sin C$$

$$\text{Arc length} = r\theta, \text{ where } \theta \text{ is in radians}$$

$$\text{Sector area} = \frac{1}{2}r^2\theta, \text{ where } \theta \text{ is in radians}$$

Trigonometry

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc\cos A$$

Statistics

$$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

$$\text{Standard deviation} = \sqrt{\frac{\Sigma fx^2}{\Sigma f} - \left(\frac{\Sigma fx}{\Sigma f}\right)^2}$$

Downloaded from SingaKids.com

Answer **all** the questions

1 Jason and Annie shared a sum of money in the ratio of 3 : 6. Annie received \$150 more than Jason. Calculate the total sum of money Jason and Annie shared.

Answer \$..... [2]

---

2 **(a)** Simplify $\sqrt[3]{64y^6}$

Answer ..... [1]

(b) Given $3^{1-2x} = \frac{1}{3}$, find the value of x.

Answer $x =$ ..... [2]

---

3 **(a)** Given that $0 < \theta < 180°$, find the values of θ for $\sin\theta = 0.6453$.

Answer ..... or ..... [2]

(b) Express $240°$ in radians, in terms of π

Answer ..... [1]

Downloaded from SingaKids.com

4 Justin invested \$10 000 in a bank that pays a compound interest of x% per annum. Find the value of x if Justin's accumulated amount after 2 years is \$10 506.25.

Answer .....% [3]

---

5 The numbers 720 and 700 are written as products of their prime factors.

$$720 = 2^4 \times 3^2 \times 5,$$
$$700 = 2^2 \times 5^2 \times 7.$$

Find

(a) the lowest common multiple of 720 and 700,

Answer ..... [1]

(b) the smallest positive integer value of k for which $\sqrt[3]{720 \times 700 \times k}$ is a whole number.

Answer $k =$ ..... [1]

Downloaded from SingaKids.com

6 Mabel currently earns a monthly salary of $3500.
She was offered an increase in her salary calculated according to either Scheme *A* or Scheme *B*. Scheme *A* gives an increase of 7% of her present monthly salary. Scheme *B* gives an increase of 6% of her present monthly salary plus a bonus of $250 every 4 months.

(a) Calculate her annual salary under

(i) Scheme *A*,

Answer $..... [1]

(ii) Scheme *B*.

Answer $..... [2]

(b) Express Mabel's increase in annual salary under Scheme *B* as a percentage of her current annual salary, giving your answer correct to 1 decimal place.

Answer .....% [2]

Downloaded from SingaKids.com

7 **(a)** Given that x^2+8x+k is a perfect square, find the value of k.

Answer $k=$ ..... [2]

(b) Using the value of k from **part (a)**, a graph is drawn for x^2+8x+k.
State the coordinates of the turning point of the graph.

Answer (..... , ...) [1]

---

8 Express $\frac{4}{7p-1}-\frac{1}{2(p+1)}$ as a single fraction in its simplest form.

Answer ..... [2]

Downloaded from SingaKids.com

9 In June, Tammy travelled to Australia from Singapore.
Before her trip to Australia, she exchanged S$2500 for Australian dollars at a rate of S$1 = A$1.20.
In Australia, Tammy spent A$1400.
On her return to Singapore, she exchanged her remaining Australian dollars back to Singapore dollars at the rate of A$1 = S$0.84.
Calculate the amount of Singapore dollars Tammy received after her trip.

Answer S$..... [2]

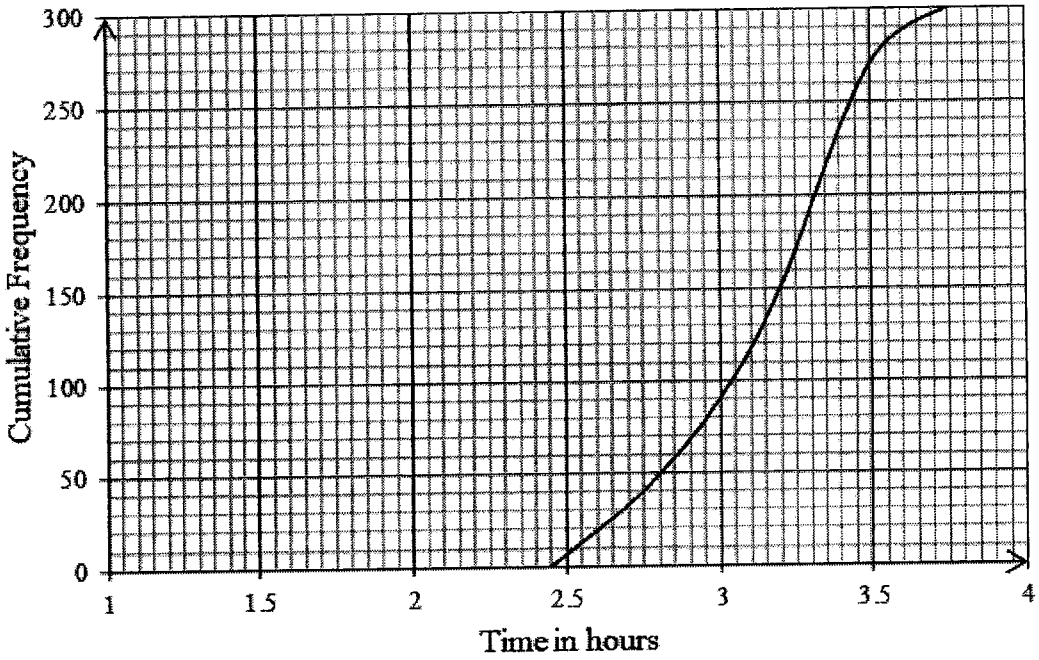
---

10 There are 88 marbles in a bag, some of which are blue, and the rest are red.
The probability of drawing a blue marble is $\frac{1}{8}$.
Find the number of blue marbles that need to be placed in the bag to change the given probability to $\frac{4}{15}$.

Answer ..... [2]

Downloaded from SingaKids.com

11 The cumulative frequency curve shows the distribution of the time taken by 300 competitors in a men's marathon race.



(a) The marathon was won by Peter. Write down his winning time, giving your answer in hours and minutes.

Cumulative Frequency

Answer ..... hours .....minutes [1]

(b) Use the curve to find, in hours and minutes,

(i) the median time,

Answer ..... hours .....minutes [1]

(ii) the 85th percentile.

Answer ..... hours .....minutes [1]

Downloaded from SingaKids.com

(c) The qualifying time for the Olympic Games was achieved by 30% of the runners. The marathon started at 07 00 hours. At what time did the last qualifying athlete finish the marathon?

Answer ..... [1]

(d) The 300 men who took part in the marathon and their years of experience in running marathons are shown in the table below.

Years of experience (t)	$0 \leq t < 2$	$2 \leq t < 4$	$4 \leq t < 6$	$6 \leq t < 8$	$8 \leq t < 10$
Frequency	66	80	61	53	40

(i) Calculate an estimate of the mean number of years of experience athletes have in running marathons.

Answer ..... [1]

(ii) Explain why the calculation in **d (i)** is an estimate.

Answer .....

..... [1]

Downloaded from SingaKids.com

12 **(a)** Expand and simplify $(5p-q)(2q+3p)$.

Answer ..... [2]

(b) Factorise each of the following completely.

(i) $\frac{1}{2}a^2b-3ab^2$,

Answer ..... [1]

(ii) $7a-3ab-6bk+14k$.

Answer ..... [2]

---

13 The equation of a line is $3y=2x+1$.

(a) Find the gradient of this line.

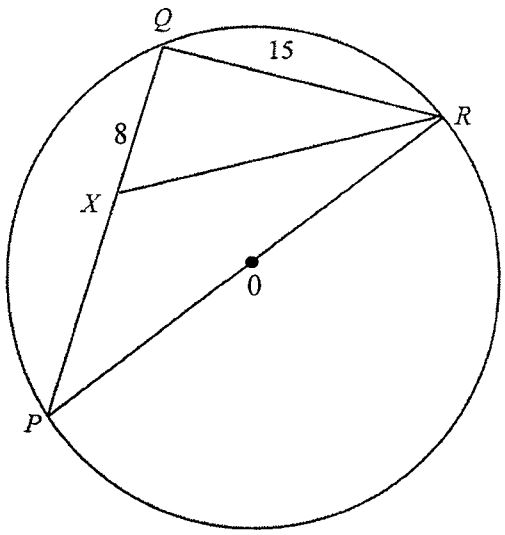
Answer ..... [1]

(b) Given that $D(10, y)$ is a point on the line, find the value of y.

Answer $y=$ ..... [1]

Downloaded from SingaKids.com

14 The diagram shows a circle with centre 0 and PR is the diameter.
X is a point on PQ.
It is also given that $QX = 8$ cm and $QR = 15$ cm.



(a) Explain why angle $PQR = 90°$

Answer .....

..... [1]

(b) Find, in fraction, the value of cos $\angle PXR$.

Answer cos $\angle PXR =$ ..... [2]

Downloaded from SingaKids.com

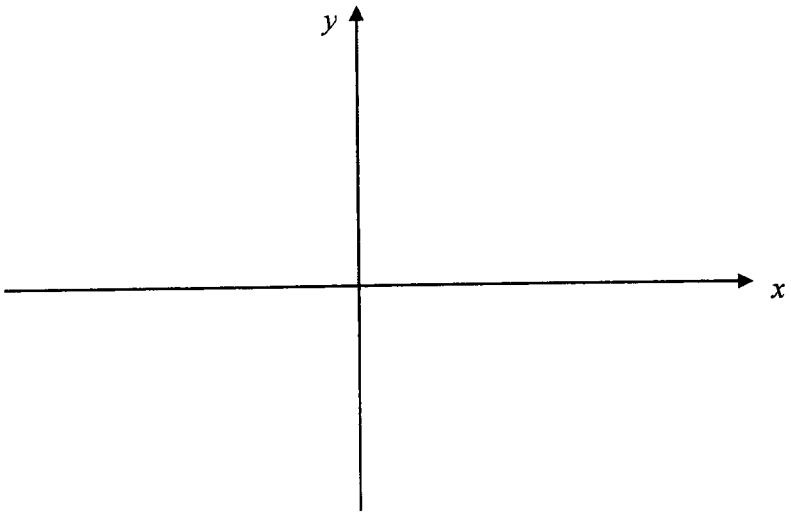
15 Simplify $\dfrac{49x^2-16}{7x^2+3x-4}$.

Answer ..... [3]

---

16 Sketch the graph of $y=2(x+1)(x-3)$ on the axes below.
Indicate clearly the points where the graph crosses the axes and its turning point.

Answer [2]



Downloaded from SingaKids.com

17 Figure 1 shows a solid cone P.
The solid cone P is divided into two solids X and Y, as shown in Figure 2.
Solid cone X is similar to cone P and the volumes of solid X and Y are 67.5 cm^3 and 245 cm^3 respectively.

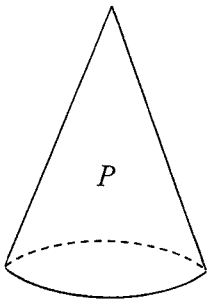


Figure 1

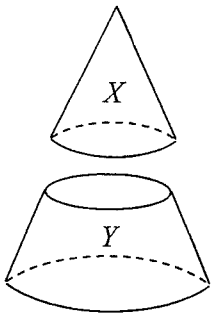


Figure 2

(a) Show that the ratio of the height of solid X to that of solid Y is 3 : 2.

Answer

[2]

(b) If the base area of solid X is 30 cm^2, calculate the base area of solid cone P.

Answer ..... cm^2 [2]

Downloaded from SingaKids.com

18 Given that $(a-b)^2 = 64$, $ab = 11$ and $a > b$, find the value of

(a) $a-b$,

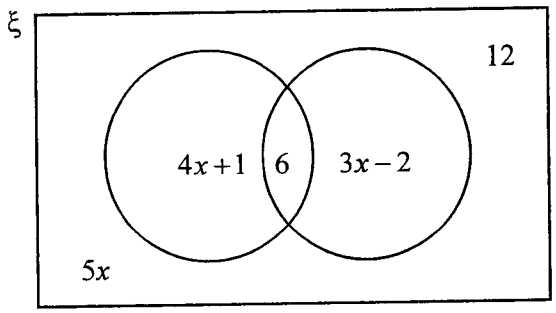
Answer ..... [1]

(b) $2(a^2+b^2)$.

Answer ..... [2]

---

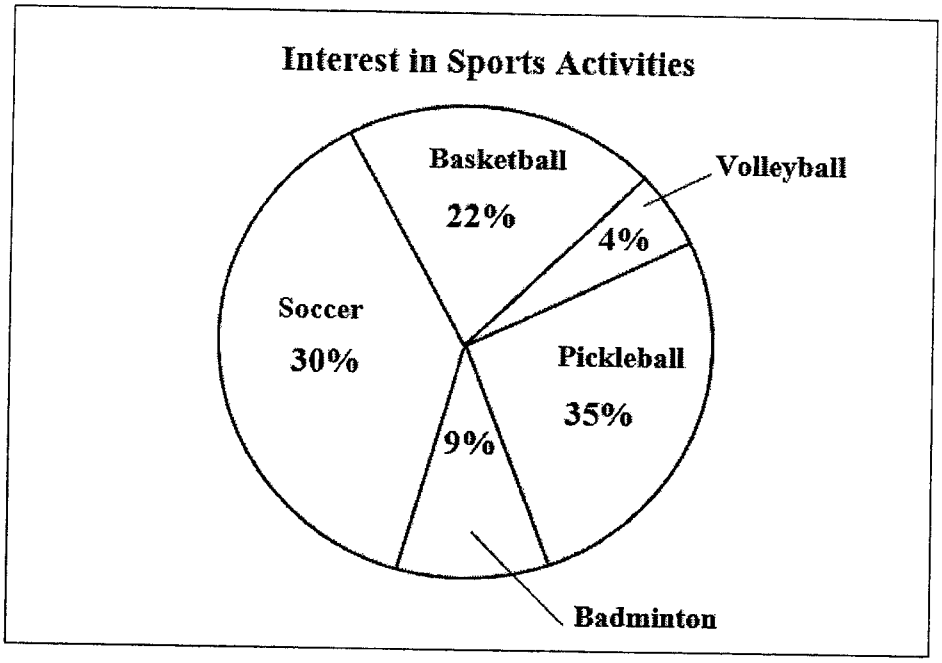
19 A and B are two sets and the number of elements in each set is shown in the Venn diagram below.
Given that $n(A \cup B) = 89$, find the value of x.



Answer $x =$ ..... [2]

Downloaded from SingaKids.com

20 **(a)** The pie chart below presents the results of a survey conducted to explore students' interest in sports activities.



State one aspect of the pie chart which is misleading and explain why.

Answer .....

..... [1]

(b) In a sequence, the difference between consecutive terms is constant.
The second term of this sequence is 40. The fifth term of this sequence is 19.

(i) Find an expression, in terms of n, for the nth term of this sequence.

Answer ..... [1]

(ii) Explain why -88 is not a term of this sequence.

Answer .....

.....[1]

Downloaded from SingaKids.com

21 A bakery sells 3 different types of buns.
The number of each type of bun sold during a particular weekend in May is given in the table below.

	Number of buns sold during a weekend	
	Saturday	Sunday
Cream bun	x	27
Potato bun	19	18
Kaya bun	23	21

This information can be represented by the matrix $\mathbf{N} = \begin{pmatrix} x & 27 \\ 19 & 18 \\ 23 & 21 \end{pmatrix}$.

(a) The cost of a cream bun, potato bun and a kaya bun is \$3, \$2.70 and \$ 4.10 respectively.
Represent this information in a 1×3 matrix **C**.

Answer **C** = ... [1]

(b) Find, in terms of x, the matrix $\mathbf{P} = \mathbf{CN}$.

Answer **P** = ... [1]

(c) Explain what the elements in **P** represent.

Answer .....

.....[1]

(d) That weekend, the bakery decided to give a 5% discount on the cost of buns on Saturday and 10% discount on the cost of buns on Sunday.
The total cost of buns sold on both days was \$360.95.
Find the value of x.

Answer x = ... [2]

Downloaded from SingaKids.com

22 y is inversely proportional to $(x-1)^2$. If the sum of the values of y when $x=3$ and when $x=5$ is 20, find

(a) an equation connecting x and y,

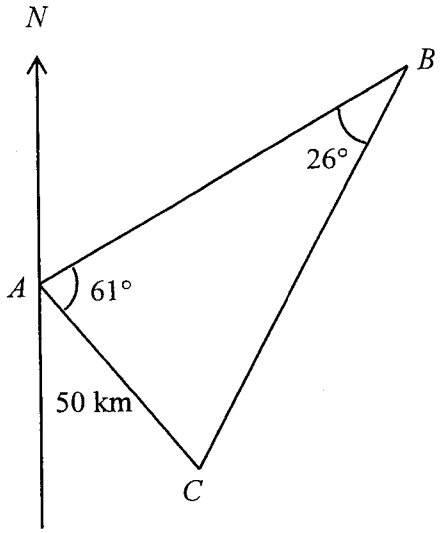
Answer ..... [2]

(b) the values of x when $y=16$.

Answer $x =$ ..... or $x =$ ..... [2]

Downloaded from SingaKids.com

23 The diagram shows the positions of three shopping malls, A, B and C
The bearing of C from A is 130°. $\angle ABC$ is 26° and $\angle BAC$ is 61°.



(a) How far apart are shopping malls B and C?

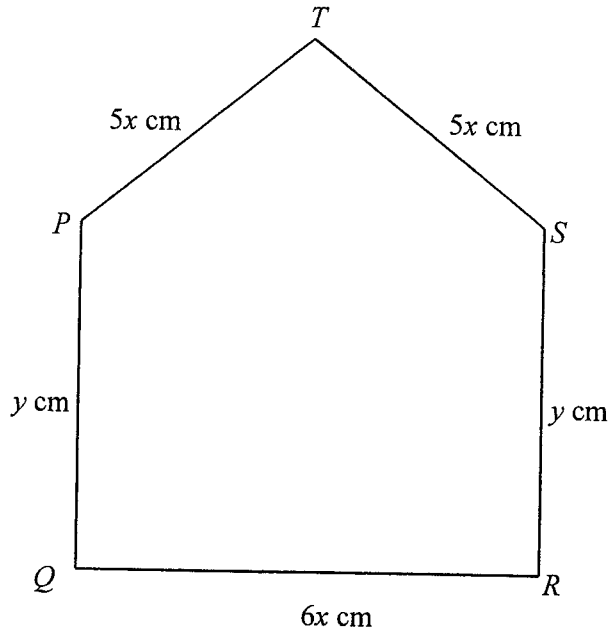
Answer ..... km [2]

(b) Peter wants to travel from shopping mall B to shopping mall C.
On what bearing should he travel from shopping mall B so that he will be able to reach shopping mall C?

Answer ..... ° [2]

Downloaded from SingaKids.com

24 A shape of a model house was created using a piece of wire which was bent to form the shape $PQRST$ as shown in the diagram below.
PQ and RS are perpendicular to QR.
It is given that $PT = ST = 5x$ cm, $PQ = RS = y$ cm and $QR = 6x$ cm.



(a) Given that the total length of the wire used is 150 cm, express y in terms of x.

Answer $y =$ ..... [2]

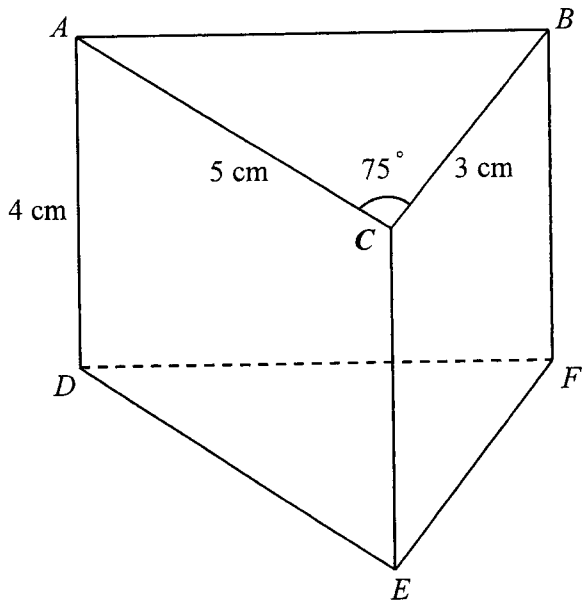
(b) Hence, show that the area of $PQRST$ is $450x - 36x^2$.

Answer

[3]

Downloaded from SingaKids.com

25 The figure shows a triangular prism in which $AC = 5$ cm, $BC = 3$ cm, $AD = 4$ cm and $\angle ACB = 75°$.



Find

(a) the length of AB,

Answer ..... cm [2]

(b) the volume of the prism,

Answer .....cm^3 [1]

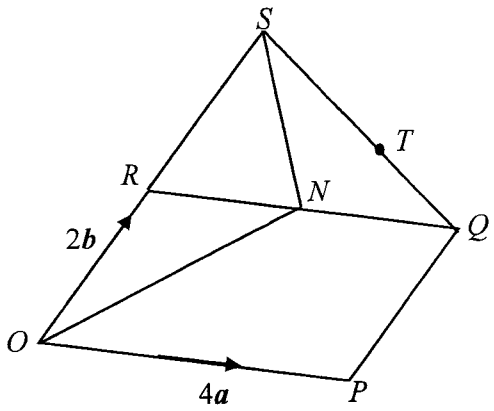
Downloaded from SingaKids.com

(c) the shortest distance from C to AB.

Answer ..... cm [2]

Downloaded from SingaKids.com

26 In a diagram, $PQRO$ is a parallelogram, and N is the midpoint of QR. ORS is a straight line. T is a point on QS such that $QT = \frac{1}{3}QS$. $2OR = OS$, $\overrightarrow{OP} = 4\boldsymbol{a}$ and $\overrightarrow{OR} = 2\boldsymbol{b}$.



(a) Express, as simply as possible, in terms of $\boldsymbol{a}$ and/or $\boldsymbol{b}$,

(i) $\overrightarrow{PR}$,

Answer ..... [1]

(ii) $\overrightarrow{QS}$,

Answer ..... [1]

(iii) $\overrightarrow{ON}$,

Answer ..... [1]

Downloaded from SingaKids.com

(iv) $\overrightarrow{OT}$.

Answer ..... [2]

(b) Explain why O, N and T lie on the same straight line.

Answer .....

.....[2]

The End

Downloaded from SingaKids.com

Downloaded from SingaKids.com

YUYING SECONDARY SCHOOL
PRELIMINARY EXAMINATION
Secondary 4 Express/ 5 Normal Academic

NAME _____

CLASS _____ **REG. NO** _____

MATHEMATICS

4052/02

Paper 2

22 August 2025
2 hours 15 minutes
Setter: Ms June Ho
Vetter: Mdm Lathamagesh

Candidates answer on the Question Paper.

READ THESE INSTRUCTIONS FIRST

Write your name, class and register number on all the work you hand in.
Write in dark blue or black pen.
You may use an HB pencil for any diagrams or graphs.
Do not use staples, paper clips, glue or correction fluid.

Answer **all** questions.
If working is needed for any question it must be shown with the answer.
Omission of essential working will result in loss of marks.
The use of an approved scientific calculator is expected, where appropriate.
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.
For π, use either your calculator value or 3.142, unless the question requires the answer in terms of π.

The number of marks is given in brackets [ ] at the end of each question or part question.
The total number of marks for this paper is 90.

For Examiner's Use									
Qn	1	2	3	4	5	6	7	8	9
Marks									

For Examiner's Use	
Total	90

Downloaded from SingaKids.com

Mathematical Formulae

Compound interest

$$\text{Total amount} = P\left(1+\frac{r}{100}\right)^n$$

Mensuration

Curved surface area of a cone $= \pi rl$

Surface area of a sphere $= 4\pi r^2$

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

$$\text{Area of triangle } ABC = \frac{1}{2}ab\sin C$$

Arc length $= r\theta$, where θ is in radians

$$\text{Sector area} = \frac{1}{2}r^2\theta, \text{ where } \theta \text{ is in radians}$$

Trigonometry

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc\cos A$$

Statistics

$$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

$$\text{Standard deviation} = \sqrt{\frac{\Sigma fx^2}{\Sigma f} - \left(\frac{\Sigma fx}{\Sigma f}\right)^2}$$

Downloaded from SingaKids.com

TURN OVER FOR QUESTION 1

Downloaded from SingaKids.com

Answer **all** the questions.

1 **(a)** Solve $6-5x=4(1-3x)$.

Answer $x=$ ..... [2]

(b) Solve the inequalities $3<8-y\leq 11$.

Answer ..... [2]

(c) Rearrange $b=\frac{1}{a}-\frac{c}{2-c}$ to make c the subject.

Answer $c=$ ..... [3]

Downloaded from SingaKids.com

(d) Solve the equation $\frac{5}{x+4} = 4 + \frac{x}{1-2x}$.

Give your solutions correct to two decimal places.

Answer $x =$ ..... or ..... [5]

Downloaded from SingaKids.com

2 **(a)** The average space between 2 oxygen atoms in solid ice is 2.76×10^{-10} metres.

(i) Express 2.76×10^{-10} metres in picometre. (pico $=10^{-12}$)

Answer ..... picometre [1]

(ii) When ice changes to water, the atom spacing of oxygen decreases by 65%. Calculate the atom spacing of oxygen in water in picometre.

Answer ..... picometre [2]

(iii) The atom spacing of oxygen in air is 3.4×10^{-9} metres. Estimate, in standard form, the number of oxygen atoms in a 1 cm by 1 cm by 1 cm cubic enclosure.

Answer ..... [2]

Downloaded from SingaKids.com

(b) (i) The actual area of a nature reserve is 84 km^2 while it measures 21 cm^2 on a map.
Find the scale of the map.

Answer 1 : ..... [2]

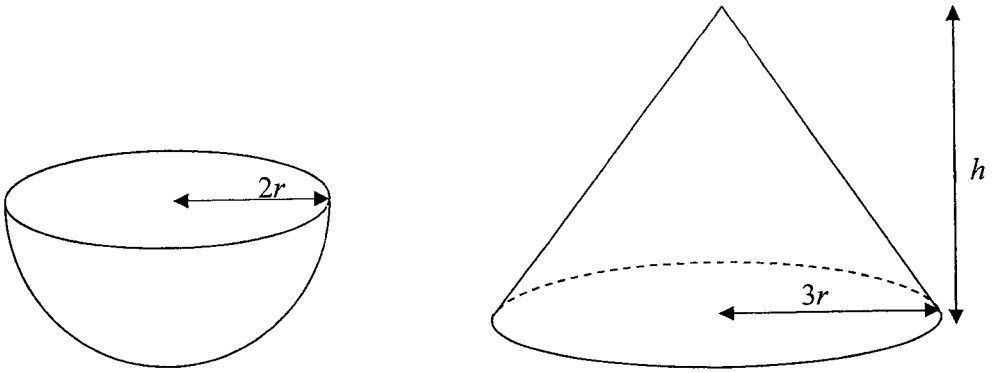
(ii) Another map has a scale of 1 : 50 000.
The length of a stream on the map is 6.5 cm long.

Calculate, in metres, the actual length of the stream.

Answer ..... m [2]

Downloaded from SingaKids.com

3



The diagram shows a solid hemisphere and a solid cone.
The hemisphere has radius $2r$ cm.
The cone has radius $3r$ cm and height h cm.

(a) Show that the volume of hemisphere is $\frac{16}{3}\pi r^3$ cm^3.

Answer

[2]

(b) The volume of the cone is twice the volume of the hemisphere.

Find h in terms of r.

Answer ..... [3]

Downloaded from SingaKids.com

(c) The total surface area of the hemisphere is 600 cm^2.

Calculate the total surface area of the cone.

Answer ..... cm^2 [4]

Downloaded from SingaKids.com

4 **(a)** Complete the table of values for $y = 2x + \frac{5}{x} - 8$.

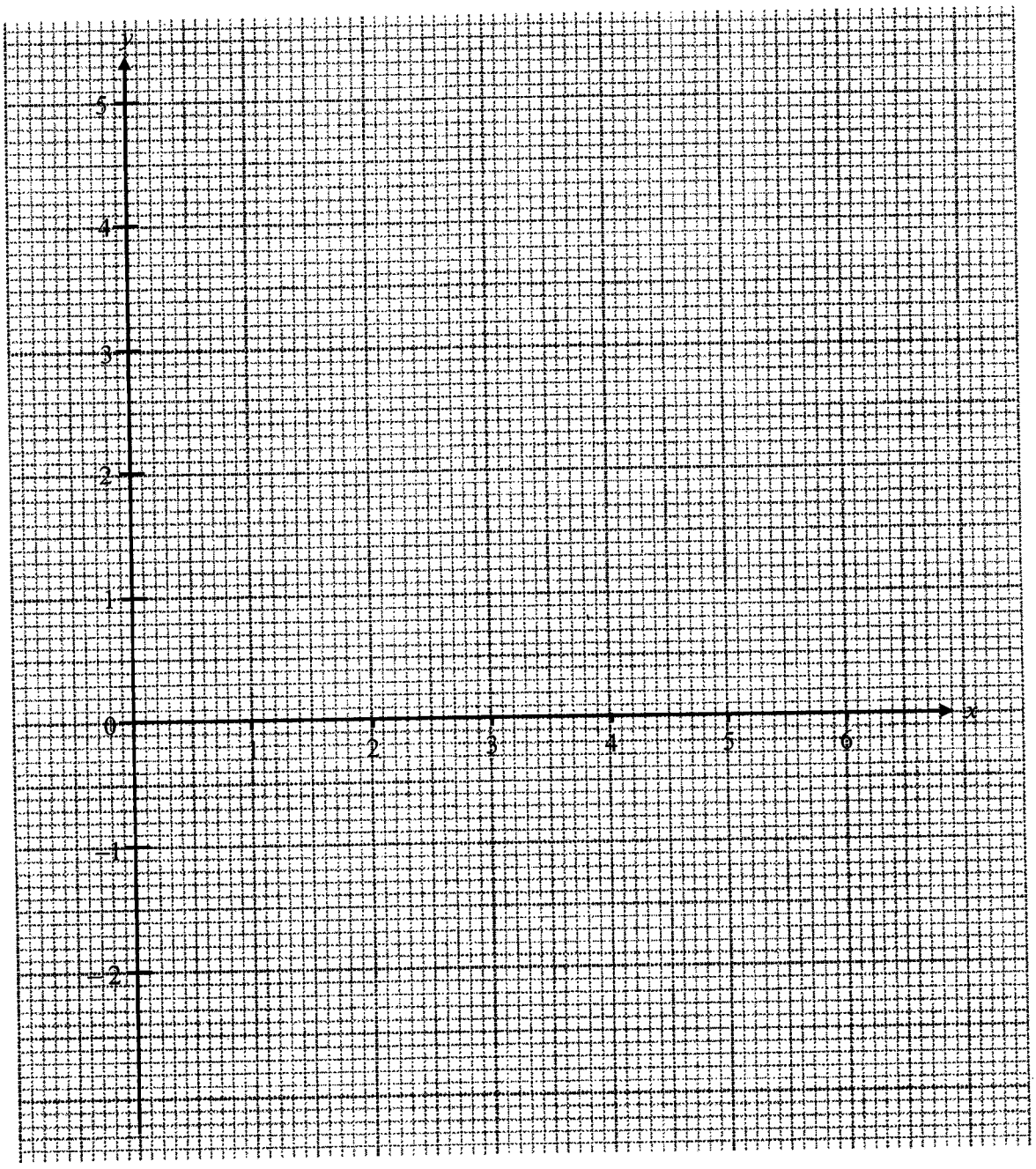
Give your answer correct to 1 decimal place.

[1]

x	0.5	1	2	2.5	3	4	5	6
y	3	-1	-1.5	-1	-0.3	1.3	3	

(b) On the grid, draw the graph of $y = 2x + \frac{5}{x} - 8$ for $0.5 \leq x \leq 6$.

[3]



Downloaded from SingaKids.com

(c) Explain how you determine the number of solutions of the equation $2x+\frac{5}{x}=10$ using your graph.

.....

.....

.....

..... [2]

(d) **(i)** On the grid in part **(b)**, draw the line $y=2x+1$ for $0\le x\le 6$.

[1]

(ii) Write down the x-coordinate of the point where this line intersects the curve.

Answer $x=$ ..... [1]

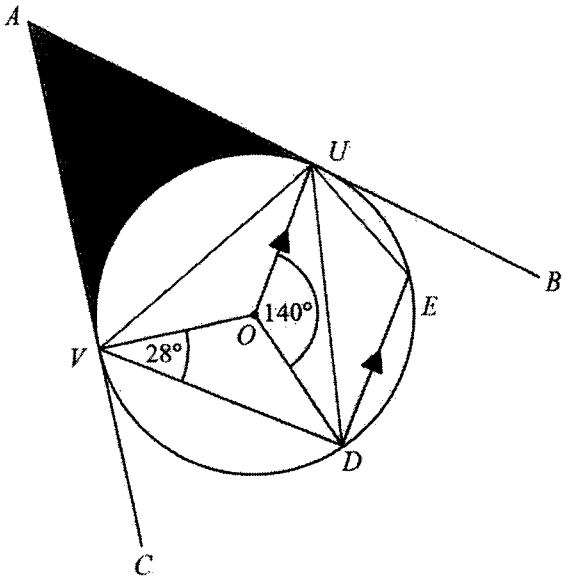
(iii) The value of x in **(d)(ii)** is the solution of the equation $Ax+B=0$.
Find the value of A and the value of B.

Answer $A=$ .....

$B=$ ..... [3]

Downloaded from SingaKids.com

5



DEUV are points on the circle, centre *O*.
AB and *AC* are tangents to the circle at point *U* and *V* respectively.
Angle *UOD* = 140°, angle *OVD* = 28° and *OU* is parallel to *DE*.

(a) Explain why *UD* bisects angle *ODE*, stating your reasons clearly.

Answer

[2]

Downloaded from SingaKids.com

(b) Calculate, giving reasons for each step of your working,

(i) angle *UED*,

Answer ..... ° [2]

(ii) angle *EUD*,

Answer ..... ° [1]

(iii) angle *AOU*.

Answer ..... ° [2]

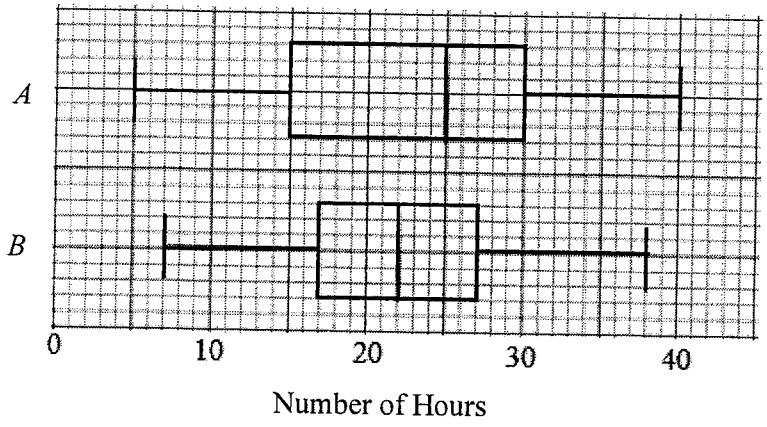
Downloaded from SingaKids.com

(c) Given that the radius of the circle is 6 cm, find the perimeter of the shaded segment.

Answer ..... cm [3]

Downloaded from SingaKids.com

6 **(a)** The box and whisker plots below show the distribution of revision hours in a week by 40 students in Class *A* and Class *B* respectively.



(i) Find the interquartile range for Class *A*.

Answer .....hours [1]

(ii) For each statement below, write down whether you **agree** or **disagree** with the statement, explaining clearly what evidence you have used to make your decision.
Use figures to support your answers.

Statement 1: Students in Class *A* spend more time on revising than Class *B*.

.....

..... [1]

Statement 2: Students in Class *A* have more consistent revision hours than Class *B*.

.....

..... [1]

Statement 3: The number of students who revised more than 15 hours in a week in Class *A* is more than in Class *B*.

.....

..... [1]

Downloaded from SingaKids.com

(b) In a survey, the number of passengers in each car passing a particular traffic light in the morning was recorded in the table shown below.

Number of passengers	0	1	2	3	4
Number of cars	26	9	15	13	7

(i) One of the cars is selected at random.

Find the probability that it has no passengers.

Answer ..... [1]

(ii) Two of the cars are selected at random.

Find, as a fraction in its simplest form, the probability that

(a) both cars have 3 passengers,

Answer ..... [2]

(b) one has more than two passengers and the other has fewer than two passengers.

Answer ..... [2]

Downloaded from SingaKids.com

7 **(a)** $\overrightarrow{AB} = \begin{pmatrix} -8 \\ a \end{pmatrix}$ and $\left|\overrightarrow{BA}\right| = 17$ units.

(i) Given that $a > 0$, find the value of a.

Answer $a =$ ..... [2]

C is a point (2, 5) and $\overrightarrow{AB} = \overrightarrow{DC}$.

(ii) Show that the coordinates of D is (10, –10).

[2]

Downloaded from SingaKids.com

(iii) Find the equation of the line CD.

Answer ..... [3]

O is the origin.
E lies on OD such that $OD : ED = 5 : 3$.

(iv) Find the coordinates of E.

Answer E (..... , ...) [1]

Downloaded from SingaKids.com

(b) The points $(-1, 8)$ and $(2, 5)$ lie on the curve given by the equation $y = ax^2 + bx + 3$.

Find the values of a and b.

Answer $a =$ ....., $b =$ ..... [4]

Downloaded from SingaKids.com

8 **(a)** Study the number pattern shown below.

			1					
		2	3	4				
	5	6	7	8	9			
10	11	12	13	14	15	16		
...	...	...	...	...	...	...	...	...

Some characteristics of the number pattern are as shown in the table below.

Row number (n)	Number of terms (T_n)	1st term in the row (F_n)	Last term in the row (L_n)
1	1	1	1
2	3	2	4
3	5	5	9
4	7	10	16
...	...	...	...

(i) Find the values of L_5, F_6 and T_7.

Answer L_5 = ... [1]

Answer F_6 = ... [1]

Answer T_7 = ... [1]

(ii) Express L_n in terms of n.

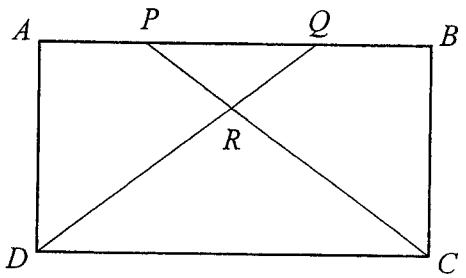
Answer L_n = ... [1]

Downloaded from SingaKids.com

(iii) Express F_n in terms of n.

Answer F_n = ... [1]

(b) In the diagram, $ABCD$ is a rectangle. P and Q are points on AB such that $PC = QD$.



Show that triangles AQD and BPC are congruent.

Answer

.....

.....

.....

.....

.....

.....

..... [2]

Downloaded from SingaKids.com

9 Sam drives GoRide during his free time.
He works from 4pm to 8pm as a GoRide driver every day in a month.

Information for GoRide drivers is given below.

Total Daily Earnings = GoRider Fare (including surge pricing) – GoRide Fees – fuel charges (including 9% GST) – car rental fees

Local GoRide Charges

On Average from 4pm – 8pm

	Distance	Time Taken
Each Trip	24.5 km	30 mins

GoRide Fares

Base fare	$4.60
Per Minute	$0.20
Per km	$0.80
Cancellation Fee	$6
Minimum Fare	$3

Fare breakdown

GoRider Fare = Base Fare + (cost per minute × ride time) + (cost per km × ride distance)

Surge Pricing (6pm – 8pm)	× 1.6 of GoRide fare

GoRide Fees

15% of GoRide Fare

(To be paid to GoRide Company for every trip)

Downloaded from SingaKids.com

(a) Calculate the average GoRide fare for one trip from 4pm to 6pm on a particular day.

Answer $ ..... [1]

(b) Sam drives non-stop between 4pm to 8pm with a new trip coming in after the previous trip has ended.

Calculate the total average GoRide fare that Sam will receive on a particular day after deducting the GoRide fees for each trip.

Answer $ ..... [3]

Downloaded from SingaKids.com

(c)

Car Rental	
Pricing	$ 118 nett /day
Contract	4 weeks

Fuel Grade	Pump Price/ litre (excludes 9% GST)	GoRide Fuel card
Fuelstar 98	$3.12	25% Discount and Additional $3 off for $60 minimum spent on fuel
Fuelstar 95	$2.65	
Fuel Star 92	$2.62	

Sam's rental car runs at an estimate of 8 litres per 100 kilometres.
The full tank capacity of his rental car is 65 litres.
He tops up his petrol tank to full tank capacity whenever it is 25% full.
Sam uses Fuelstar 95 for his petrol.
He has a GoRide fuel card.

Sam expects a monthly income of $4000, assuming he has a continuous flow of customers from 4pm to 8pm.

Determine if Sam can earn his expected income of $4000 as a GoRide driver in a month of 30 days.

Show your calculations clearly.

Downloaded from SingaKids.com

Continuation of working space for question **9(c)**

Answer .....

.....[7]

~~~ END OF PAPER ~~~

Downloaded from SingaKids.com
~~~

BLANK PAGE

Downloaded from SingaKids.com