NAME		REG. NO.		CLASS	

SERANGOON GARDEN SECONDARY SCHOOL
MID-YEAR EXAMINATION 2011

SUBJECT: ELEMENTARY MATHEMATICS PAPER 1

LEVEL: SECONDARY ONE EXPRESS

DATE: 11TH MAY 2011

TIME: 08 05 – 09 05 H

DURATION: 1 HOUR

INSTRUCTIONS TO CANDIDATES

Write your name, index number and class in the space provided on the top of this page.
Write in dark blue or black pen.
Do not use staples, paper clips, highlighters, 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.
You are expected to use a scientific calculator to evaluate explicit numerical expressions.
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 40.

	FOR MARKER'S USE
Name/Signature of Parent/Guardian _____ Date _____	40

This question paper consists of 7 printed pages and 1 blank page.

Downloaded from SingaKids.com

1. Round off 386.715 correct to
   (a) the nearest integer

   (b) 2 significant figures

   (c) 2 decimal places

   (d) the nearest 100

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [1]

(d) _____ [1]

---

2. (a) Find the difference between the greatest and the smallest prime numbers between 50 and 100.

   (b) (i) Express 324 as a product of its prime factors, giving your answer in index notation.

   (ii) Hence, without using a calculator and using your result from b (i), find the value of $\sqrt{324}$, giving your answer in index notation.

Ans: (a) _____ [2]

(b)(i) _____ [2]

(ii) _____ [1]

Downloaded from SingaKids.com

3. (a) Find the value of

(i) $2\frac{3}{4}+3\frac{3}{5}$

(ii) 0.23×0.11

(b) Arrange the following in ascending order.

$$\frac{21}{55}, 0.6^2, \frac{4}{11}, 0.366$$

Ans: (a)(i) _____ [1]

(ii) _____ [1]

(b) _____ [2]

---

4. Given the numbers 12, 24 and 60, find their
(a) highest common factor,

(b) the lowest common multiple.

Ans: (a) _____ [2]

(b) _____ [2]

Downloaded from SingaKids.com

5. Complete the following patterns.

(a) 1.6, 1.5, 1.3, 1.0, _____, _____.

(b) 3, 4, 8, 17, 33, 58, _____, _____.

Ans: (a) _____ , _____[2]

(b)_____, _____ [2]

6.(a) Express $7\frac{1}{2}\%$ as fraction in the simplest form.

(b) Express $\frac{4}{25} : 2.4$ in its simplest form.

Ans: (a) _____ [1]

(b) _____ [2]

Downloaded from SingaKids.com

7. (a) A water pump can fill a tank at the rate of 160 litres per hour. If the tank has a capacity of 8000 litres, find the time taken to fill up $\frac{3}{5}$ of the tank.

(b) If a second water pump can fill the same tank at the rate of 80 litres per hour, find the time taken to fill $\frac{3}{5}$ of the tank.

(c) If the two water pumps are turned on together, find the time taken to fill $\frac{3}{5}$ of the tank.

Ans: (a) _____ h [2]

(b) _____ h [2]

(c) _____ h [2]

Downloaded from SingaKids.com

8. (a) Increase $ 25 in the ratio 8 : 5.

(b) A train left a station at 8.35 a.m. and arrived at its destination, 150 km away, at 1.35 p.m. on the same day.

(i) How long did the journey take?

(ii) What is the average speed in m/s? (**Leave your answer as a mixed number.**)

Ans: (a) _____ [2]

(b) (i) _____ [1]

(ii) _____ [2]

Downloaded from SingaKids.com

9. (a) A solution stored at -34.8°C is heated so that its temperature rises by 81.9°C.

(i) What is the new temperature of the solution?
(ii) If it is allowed to cool to 36.8°C, what is the drop in temperature?

Ans: (a)(i) _____ [2]

(ii) _____ [2]

(b) Draw a number line to represent prime numbers more than 4 and less than 14.

Ans: [1]

End of Paper

Downloaded from SingaKids.com

Downloaded from SingaKids.com

1E Maths SA1 Paper 1 Marking Scheme 2011

Question No	Answer	Marks
1a	387	B1
1b	390	B1
1c	386.72	B1
1d	400	B1
2a	97- 53= 44	B1 B1
2b	(i) $324 = 2^2 \times 3^4$ 2 | 324 2 | 162 3 | 54 3 | 18 3 | 6 3 | 2 1 (ii) $\sqrt{324} = \sqrt{2\times3^2\times2\times3^2}$ $= 2\times3^2$	M1 A1 A1
3a(i)	$2\frac{3}{4}+3\frac{3}{5}=5\ \frac{3}{4}\times\frac{5}{5}+\frac{3}{5}\times\frac{4}{4}=5\frac{15+12}{20}=5\frac{27}{20}=6\frac{7}{20}$ OR 6.35	B1
(ii)	0.23 x 0.11 = 0.0253	B1
3b	Ans : 0.6^2, $\frac{4}{11}$, 0.366, $\frac{21}{55}$ (0.36, 0.36363636.., 0.366, 0.38181818…)	M1 A1
4a	HCF=12 2 | 12, 24 , 60 2 | 6, 12, 30 3 | 3, 6, 15 1, 2, 5	M1 A1
4b	LCM= 2^3 x 3 x 5 = 120	M1 A1
5a	0.6 , 0.1	B1, B1
5b	94, 143	B1,B1

Downloaded from SingaKids.com

6a	$7\frac{1}{2}/100 = \frac{7.5}{100} = \frac{750}{1000}$ $= \frac{3}{4}$	M1 A1
6b	ANS: 1 : 15 Working: $\frac{4}{25} : 2.4 =$ $\frac{4}{25} : \frac{24}{10} = \frac{4\times2}{25\times2} : \frac{24\times5}{10\times5} = \frac{8}{50} : \frac{120}{50} = 8:120 = 2:30 = 1:15$	M1 A1
7a	A water pump can fill a tank at the rate of 160 litres per hour. If the tank has a capacity of 8000 litres, find the time taken to fill up $\frac{3}{5}$ of the tank	
	Ans: 30 h Working: Amount to fill = $\frac{3}{5}\times8000 = 3\times1600 = 4800$ litres Time required = $\frac{4800}{160} = 30hrs$	M1 A1
7b	If a second water pump can fill the same tank at the rate of 80 litres per hour, find the time taken to fill $\frac{2}{5}$ of the tank. As the rate is 80 litres per hour(half of 160 l/h), Ans: The time will be double i.e. 60 hrs	M1 A1
7c	If the two water pumps are turned on together, find the	

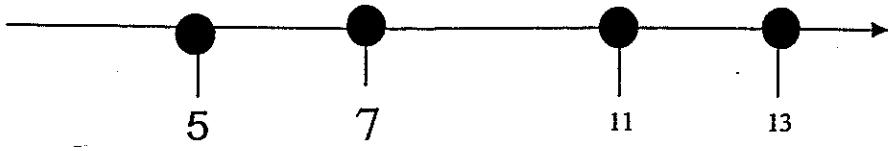
Downloaded from SingaKids.com

	time taken to fill $\frac{3}{5}$ of the tank. In 1 hr, 1st pump → 160 litres per hour 2nd pump → 80 litres per hour Both pumps fill → $\frac{160+80}{}$ = 240 litres per hour $\frac{3}{5}\times 8000$ **litres = 4800 litres** $\text{Time} = \frac{4800}{240} = 20h$ (Ans)	M1 M1 A1
8a	Ans: \$40 Working: $\frac{8}{5}\times 25 = 8\times 5 = 40$	M1 A1
8b(i)	5 h	B1
(ii)	Ans: $8\frac{1}{3}\ m/s$ Working: speed $= \frac{D}{T} = \frac{150km}{5hrs} = \frac{150\times 1000m}{5\times 60\times 60\sec} = 8\frac{1}{3}\ m/s$	M1 A1
9a(i)	Ans: 47.1°C -34.8 + 81.9 = 47.1	M1 A1
9a(ii)	Ans: 10.3°C	M1

Downloaded from SingaKids.com

	47.1 – 36.8 = 10.3	A1

9b B1 [$\frac{1}{4}$ *marks* for each correct point]



B mark	**Answer Mark**	**No working needed**
M mark	**Method mark**	**Award mark even wrong answer**
A mark	**Answer mark**	**Correct answer**

Downloaded from SingaKids.com

NAME		REG. NO.		CLASS	

SERANGOON GARDEN SECONDARY SCHOOL
MID-YEAR EXAMINATION 2011

SUBJECT: ELEMENTARY MATHEMATICS PAPER 2

LEVEL: SECONDARY ONE EXPRESS

DATE: 11 TH MAY 2011

TIME: 10 05 - 11 35 H

DURATION: 1 HOUR 30 MIN

INSTRUCTIONS TO CANDIDATES

Write your name, index number and class in the space provided on the answer paper.
Write in dark blue or black pen.
Do not use staples, paper clips, highlighters, 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.
You are expected to use a scientific calculator to evaluate explicit numerical expressions.
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.

At the end of the examination, fasten all your work securely together.
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 60.

Name/Signature of Parent/Guardian _____ Date _____

FOR MARKER'S USE
60

This question paper consists of 6 printed pages and 0 blank page.

Downloaded from SingaKids.com

1. (a) A wheatgrass drink is made by mixing wheatgrass juice and lime juice in the ratio of 3 : 2.

(i) If 320 ml of lime juice is used, how much wheatgrass juice should be added? [2]

(ii) How much lime juice is there in a drink of volume 1500 ml? [2]

(b) There are 76 pears and 30 oranges on the table. How many percent more pears than oranges are there? Give your answer to 3 significant figures.

[2]

---

2. Using a calculator, evaluate each of the following expressions, giving your answers correct to 3 significant figures.

(a) $\sqrt{812} \times \sqrt[3]{927} + [25.3 - 0.529 + (-1.67)]$ [1]

(b) $\dfrac{(-5\frac{3}{13}) \times (\frac{3}{7})^2}{2\frac{7}{11} - 1\frac{3}{8}}$ [1]

---

3. Consider the following list of numbers:

$$\frac{\sqrt[3]{-27}}{\sqrt{9}}, \quad -1.85, \quad \sqrt{3}, \quad \frac{1}{4}, \quad 0.\dot{8}\dot{5}, \quad \frac{\sqrt{7}}{\sqrt{11}}.$$

From the list,

(a) write down the **irrational** numbers [2]

(b) write down an integer between $\dfrac{\sqrt{7}}{\sqrt{11}}$ and $\sqrt{3}$ [2]

(c) arrange the **rational** numbers in descending order. [2]

Downloaded from SingaKids.com

4. Mrs Tan bought 120 boxes of cookies at $7.50 per box. Each box contained 50 cookies. She repacked the cookies into packets of 15 each. Each packet was sold at $2.50.

(a) How many packets of cookies were there altogether? [2]

(b) Calculate the profit per packet. [2]

(c) She managed to sell 320 packets.
What was her profit or loss if she sold the rest at $2.20 per packet? [2]

---

5. Expressed as the product of prime factors,
$198 = 2 \times 3^2 \times 11$ and $90 = 2 \times 3^2 \times 5$.

Use these results to find

(a) the smallest integer, k, such that 198k is a perfect square, [2]

(b) the highest common factor of 198 and 90. [2]

---

6. In 2010, a car salesman was paid an annual salary of $ 41, 400.

(a) He received his salary over 12 months.
Calculate the sum that he received each month. [1]

(b) For each car that he sold, he earned a commission of 3 % of the value of the car that he sells. In 2010, his total commission was $ 95, 337. Find the number of cars that he had sold in 2010, if the selling price of a car is $ 105, 930. [2]

(c) The selling price of the car is inclusive of a 7 % GST.
Find the price of the car without the inclusion of GST. [2]

(d) In 2011, his annual salary was increased to $ 45,200.
Find the percentage increase in his annual salary from 2010 to 2011, giving your answer to 2 decimal places. [2]

Downloaded from SingaKids.com

7 Suriani has three pieces of rope with lengths of 120 cm, 180 cm and 240 cm.
She wishes to cut the three pieces of rope into smaller pieces of equal length with no remainders.

(a) What is the greatest possible length of each of the smallest pieces of rope? [2]

(b) How many of the smaller pieces of rope of equal length can Suriani get? [2]

---

8 (a) Four bus services leave Serangoon Interchange at 7 a.m. [3]
Service **P** leaves at 5 minute intervals,
service **Q** at 8 minute intervals,
service **R** at 10 minute intervals,
and service **S** at 12 minute intervals.

Find the time when the 4 services next leave the Interchange together.

(b) A farmer uses $\frac{1}{4}$ of his land for planting palm oil, [3]
$\frac{1}{5}$ for pineapple,
$\frac{1}{6}$ for durian
and the remaining 161 hectares for rubber.

Find the area allocated for planting pineapple.

---

9. A passenger car leaves Town A at 20 45 h and travels at 60 km/h for 2 hours to Town B.
Then the driver rests for an hour and continues his journey to Town C.
The driver travels at 80km/h, and the distance between Towns B to C is 200km.

(a) Find the distance between Town A and Town C. [2]

(b) Find the total time taken by the driver for the whole journey. [2]

(c) Find the average speed of the whole journey. [2]

Downloaded from SingaKids.com

10. Consider the following number pattern:

$$2\times 2=1\times 3+1$$
$$3\times 3=2\times 4+1$$
$$4\times 4=3\times 5+1$$
$$5\times 5=4\times 6+1$$
$$\text{M}$$
$$n\times n=13\times 15+1$$

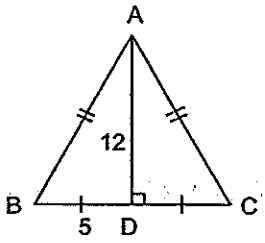
(a) Write down the 10^{th} line in the pattern. [1]

(b) From the above number pattern, find the value of n. [1]

(c) Use the above pattern to calculate the value of 199^2. [1]

---

11. Triangle ABD and triangle ACD are identical triangles with AD = 12 cm and BD = 5 cm.



(a) Find the area of triangle ABC. [2]

(b) Given that the length of AC is 13 cm, find the length of the perpendicular distance from B to AC, giving your answer to 2 decimal places. [2]

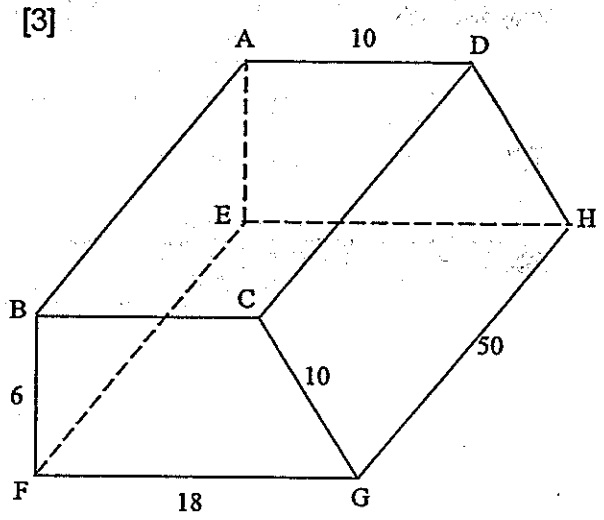
Downloaded from SingaKids.com

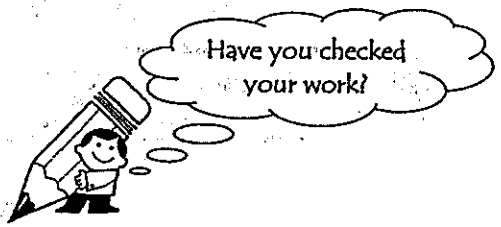
12. The diagram shows a prism of length 50 cm. The faces of ABCD and EFGH are horizontal rectangles. The faces ABFE, BCGF and ADHE are vertical.
CG = DH = 10 cm, BC = AD = 10 cm, BF = AE = 6 cm and FG = EH = 18 cm.

Find

(a) the volume of the prism. [3]

(b) the total surface area of the prism. [3]





~END OF PAPER~

Downloaded from SingaKids.com

1E Maths SA1 Paper 2 Marking Scheme 2011

Qn No	ANSWER	WORKING	Marks
1a	(i) 480 ml	Given WHEATGRASS: LIME JUICE= 3:2 Lime juice ⟶ 320 ml Wheatgrass ⟶ $\frac{3}{2}\times 320 = 480$	M1 A1
	(ii) 600 ml	mixed Drink ⟶ 1500 ml lime juice ⟶ $\frac{2}{5}\times 1500 = 600$	M1 A1
1b	153%	Given 76 pears, 30 oranges % more of pears = $\frac{(76-30)}{30}\times 100$ $= \frac{46}{30}\times 100 = 153$	M1 A1
2a	301	$\sqrt{812}\times\sqrt[3]{927}+[25.3-0.529+(-1.67)]$ = 301	B1
2b	-0.762	$\frac{(-5\frac{3}{13})\times(\frac{3}{7})^2}{2\frac{7}{11}-1\frac{3}{8}} =$ - 0.762	B1
3a	Irrational numbers are $\sqrt{3}, \frac{\sqrt{7}}{\sqrt{11}}$	Given $\frac{\sqrt[3]{-27}}{\sqrt{9}}$, -1.85, $\sqrt{3}$, $\frac{1}{4}$, 0.85, $\frac{\sqrt{7}}{\sqrt{11}}$.	B1, B1 (for each correct ans.)

Downloaded from SingaKids.com

3b	1	$\frac{\sqrt{7}}{\sqrt{11}} = 0.7977$ $\frac{\sqrt{3}}{} = 1.732$ an integer between $\frac{\sqrt{7}}{\sqrt{11}}$ and $\sqrt{3} = 1$	M1 A1
3c	**Descending order** $0.85, \frac{1}{4}, \frac{\sqrt[3]{-27}}{\sqrt{9}}, -1.85$	Given $\frac{\sqrt[3]{-27}}{\sqrt{9}}$, -1.85, $\sqrt{3}$ (Irrational), $\frac{1}{4}$, 0.85, $\frac{\sqrt{7}}{\sqrt{11}}$ (Irrational) Rational numbers are $\frac{\sqrt[3]{-27}}{\sqrt{9}} = \frac{-3}{3} = -1$, -1.85, $\frac{1}{4} = 0.25$, 0.85,	M1 A1
4a	400	Mrs Tan bought 120 boxes of cookies at $7.50 per box. Each box contained 50 cookies. She repacked the cookies into packets of 15 each. Each packet was sold at $2.50. (a) How many packets of cookies were there altogether? No. of cookies = $120 \times 50 = 60\,00$ No. packets of cookies $= \frac{6000}{15} = 400$	M1 A1

Downloaded from SingaKids.com

4b	$ 0 .25	b) Calculate the profit per packet. Each packet was sold at $2.50. Mrs Tan bought 120 boxes of cookies at $7.50 per box. cost price = 120 x $ 7.50 = $ 900 6 000 cookies cost $ 900 15 cookies cost $ $\frac{900}{6000} \times 15 = \$\ 2.25$ selling price of 15 cookies 0 = $2.50 Profit per packet = $ 2.50 - $ 2.25 = $ 0.25	M1 A1
4c	$76	She managed to sell 320 packets. What was her profit or loss if she sold the rest at $2.20 per packet? Amount received from selling 320 pkts = 320 x $ 2.50= $ 800 No. of pkts left = 400 – 320 = 80 amount received from selling 80 pkts = 80 x $ 2.20 = $ 176 total received= $ 800 + $ 176 = $ 976 profit = $ 976 - $ 900 = $ 76	M1 A1
5a	K = 22	Given $198 = 2 \times 3^2 \times 11$ and $90 = 2 \times 3^2 \times 5$. Use these results to find the smallest integer, k, such that 198k is a perfect square $198k = 2 \times 3^2 \times 11 \times 2 \times 11$ $K = 2 \times 11 = 22$	M1 A1
5b	18	Find highest common factor of 198 and 90. Given $198 = 2 \times 3^2 \times 11$ and $90 = 2 \times 3^2 \times 5$ HCF $= 2 \times 3^2$ $= 18$	M1 A1

Downloaded from SingaKids.com

6a	$ 3, 450	In 2010, a car salesman was paid as annual salary of $ 41, 400. He received his salary over 12 months. Calculate the sum that he received each month. $\$\frac{41400}{12} = \$\ 3,450$	M0.5 A0.5
6b	30	For each car that sold, he earned a commission of 3 % of the value of the car that he sells. In 2010, his total commission was $ 95, 337. Find the number of cars that he had sold in 2010, if the selling price of a car is $ 105, 930. the number of cars sold = total value of cars sold / Selling price of a car 3 % of total value of cars = $ 95, 337. 100 % of total value of cars $= \$\frac{95337}{3} \times 100 = \$\ 3,177,900$ the number of cars sold = total value of cars sold / Selling price of a car $= \frac{3,177900}{105930} = 30$	M1 A1

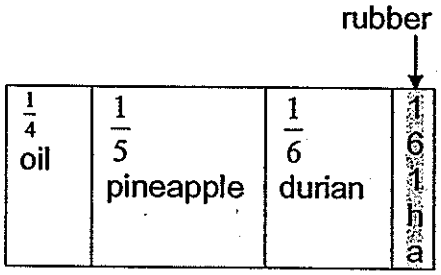
Downloaded from SingaKids.com

6c	$ 9 000	The selling price of the car is inclusive of a 7 % GST. Find the price of the car without the inclusion of GST. price of the car without the inclusion of GST $= \$ \frac{100}{107} \times 105930$ = $ 99 000	M1 A1
6d	9.18	In 2011, his annual salary was increased to $ 45 200. Find the percentage increase in his annual salary from 2010 to 2011,giving your answer to 2 decimal places. Increase = $ 45, 200 -$ 41, 400 = $ 3800 percentage increase = $\frac{3800}{41400} \times 100$ = 9.15(2 dec pl)	M1 A1
7a	60 cm	Suriani has three pieces of rope with lengths of 120 cm, 180 cm and 240 cm. She wishes to cut the three pieces of rope into smaller pieces of equal length with no remainders. 2 | 120, 180, 240 2 | 60, 90, 120 3 | 30, 45, 60 5 | 10, 15, 20 HCF = 2 x 2 x 3 x5 = 60	M1 A1

Downloaded from SingaKids.com

7b	9	How many of the smaller pieces of rope of equal length can Suriani get? $\frac{120}{60}=2$ $\frac{180}{60}=3$ $\frac{240}{60}=4$ No. of pieces = 2 + 3 + 4 = 9	M1 A1
8a	9 a.m.	Four bus services leave Serangoon Interchange at 7 a.m. Service **P** leaves at 5 minute intervals, service **Q** at 8 minute intervals, service **R** at 10 minute intervals, and service **S** at 12 minute intervals. Find the time when the 4 services next leave the Interchange together. 2 | 5, 8, 10, 12 2 | 5, 4, 5, 6 2 | 5, 2, 5, 3 5 | 5, 1, 5, 3 3 | 1, 1, 1, 3 1, 1, 1, 1 LCM = $2^3 \times 5 \times 3$ = 120 interval = 120 min = 2 hrs time when the 4 services next leave the Interchange together is 2 hrs after 7 a.m. i.e. 9 a.m.	M2 A1

Downloaded from SingaKids.com

8b	84 hectares	A farmer uses $\frac{1}{4}$ of his land for planting palm oil, $\frac{1}{5}$ for pineapple, $\frac{1}{6}$ for durian and the remaining 161 hectares for rubber. Find the area allocated for planting pineapple.  2 | 4, 5, 6 2 | 2, 5, 3, 3 | 1, 5, 3 5 | 1. 5, 1 1, 1, 1 LCM = 4 x3x5 = 60 Fraction of rubber = $1 - \frac{1}{4} - \frac{1}{5} - \frac{1}{6}$ $= \frac{60-15-12-10}{60} = \frac{23}{60}$ 23 parts (rubber) $\longrightarrow$ 161 ha area allocated for planting pineapple $\frac{1}{5} \longrightarrow$ 12 parts $\longrightarrow \frac{161}{23} \times 12$ = 7 x 12 = 84 ha	M2 A1

Downloaded from SingaKids.com

9a	320km	A passenger car leaves Town A at 20 45 h and travels at 60 km/h for 2 hours to Town B. Then the driver rests for an hour and continues his journey to Town C. The driver travels at 80km/h, and the distance between Towns B to C is 200km.  A 2hrs B C 20 45 h rest 1 hr 60km/h 80km/h 200 km Find the distance between Town A and Town C. D between A and B =S x T =60 x 2 = 120 km D between A and C = 120 + 200 km = 320 km	M1 A1
9b	5.5hour	Find the total time taken by the driver for the whole journey. T from B to C = $\frac{D}{S} = \frac{200}{80} = 2.5$ h Total time taken = 2 + 1 h rest + 2.5h = 5.5 h	M1 A1
9c	58.2km/hr	Find the average speed of the whole journey. S = $\frac{totalD}{totalT} = \frac{320}{5.5} = 58.181818$ km/h = 58.2 km/h(3sig fig) Note: 3 sig fig required according to instructions on cover page.	M1 A1

Downloaded from SingaKids.com

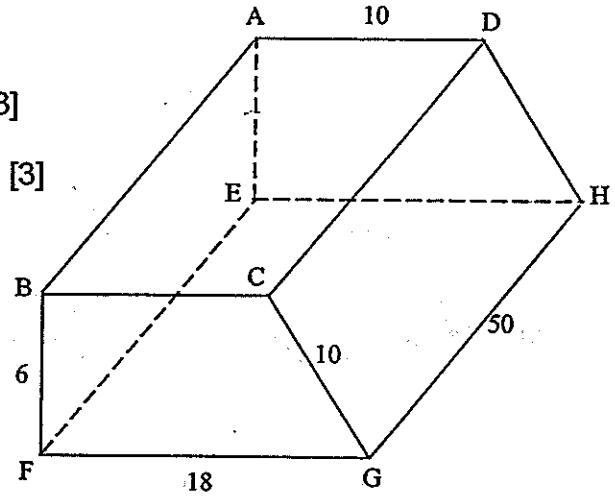
10a	$11\times11=10\times12+1$	$2\times2=1\times3+1$ $3\times3=2\times4+1$ $4\times4=3\times5+1$ $5\times5=4\times6+1$ M $n\times n=13\times15+1$ Write down the 10th line in the pattern.	B 1
10b	$n=14$	From the above number pattern, find the value of n.	B1
10c	39601	(c) Use the above pattern to calculate the value of 199^2. $199^2 = 198 \times 200 + 1$ $= 3960 + 1 = 39601$	M1 A1
11a	60 cm^2	Area = $\frac{10\times12}{2}$ $= 60\ cm^2$	M1 A1
11b	9.23 cm	$\frac{13\times h}{2} = 60\ cm^2$ $13\times h = 120$ h = 9.23	M1 A1
12a	4200 cm^3		M2 A1
12b	2368 cm^2		M2 A1

Downloaded from SingaKids.com

12 Find

(a) the volume of the prism. [3]

(b) the total surface area of the prism. [3]



a) vol = c s area of trapeziumx height of prism

$= \frac{(sumofparallelsides)}{2} \times h$ x height of prism M1

$= \frac{(18+10)}{2} \times 6$ x 50 M1

= 4200 cc A1

b) the total surface area of the prism

= 2 x area of trapezium + area of top and bottom + area of 2 sides M1

$= 2\left[\frac{(18+10)}{2} \times 6\right] + [10 \times 50 + 18 \times 50] + [10 \times 50 + 6 \times 50]$

M1

$= 168 + 1400 + 800 = 2368\ cm^2$ A1

Marking Scheme

B mark	Answer Mark	No working needed
M mark	Method mark	Award mark even wrong answer
A mark	Answer mark	Correct answer

Downloaded from SingaKids.com