HENRY PARK PRIMARY SCHOOL
2020 SEMESTRAL EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ ( ) Parent's Signature

Class: Primary 5_____ _____

Marks:

Paper 1	Booklet A	20
	Booklet B	25
Paper 2		55
Total		100

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

Downloaded from SingaKids.com

Downloaded from SingaKids.com

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer in the Optical Answer Sheet.

(20 marks)

---

1 What is the value of digit 1 in 915 482?

(1) 10

(2) 100

(3) 1000

(4) 10 000

2 Mrs Tay baked 204 cookies. After giving 6 cookies to each of her students, she had 12 cookies left. How many students did Mrs Tay give the cookies to?

(1) $204 - 12 \div 6$

(2) $204 + 12 \div 6$

(3) $(204 - 12) \div 6$

(4) $(204 + 12) \div 6$

3 Find the value of $\frac{1}{8} \times 4$

(1) $\frac{1}{2}$

(2) $\frac{1}{12}$

(3) $\frac{3}{8}$

(4) $\frac{5}{8}$

(Go on to the next page)

Downloaded from SingaKids.com

4 Samuel spent $\frac{2}{5}$ of his salary and gave $\frac{1}{3}$ of his remaining salary to his wife. What fraction of his salary did Samuel have left?

(1) $\frac{1}{5}$

(2) $\frac{2}{5}$

(3) $\frac{2}{15}$

(4) $\frac{4}{15}$

5 There are 16 sweets and 32 lollipops in a basket. What is the ratio of the number of lollipops to the total number of sweets and lollipops?

(1) 1 : 3

(2) 2 : 3

(3) 3 : 1

(4) 3 : 2

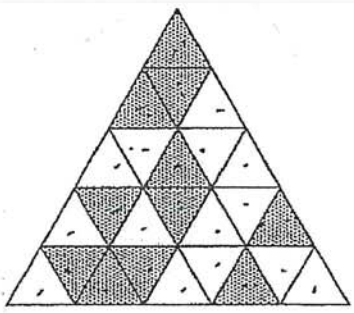
6 What percentage of the figure is shaded?

(1) 11%

(2) 25%

(3) 44%

(4) 55%



(Go on to the next page)

Downloaded from SingaKids.com

7 A photocopier can print 9000 pages per hour. How many pages can the photocopier print in 30 minutes?

(1) 150

(2) 450

(3) 2700

(4) 4500

8 Hafif watched a movie at a cinema that lasted for 1 h 35 min. The movie started at 11.45 a.m. What time did the movie end?

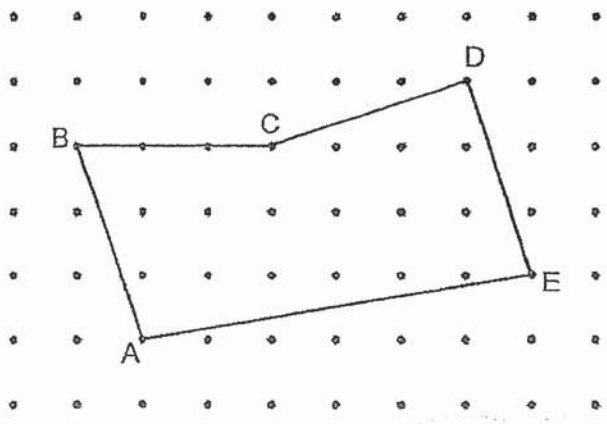
(1) 1.20 p.m.

(2) 12.20 p.m.

(3) 3.20 p.m.

(4) 10.10 a.m.

9 A figure is drawn in a square grid below. Which two lines are perpendicular to each other?



(1) AB and AE

(2) AB and DE

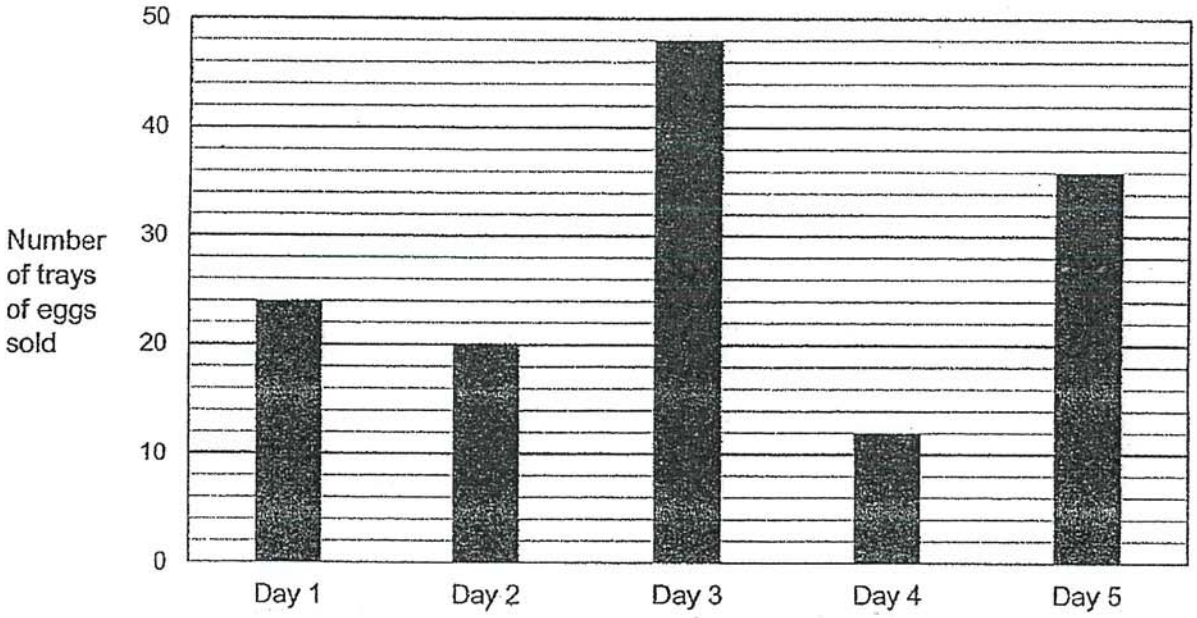
(3) AE and DE

(4) CD and DE

Downloaded from SingaKids.com

Use the information below to answer Questions **10** *and* **11**.

Mr Lim had 200 trays of eggs for sale in his grocery store over five days. The bar graph below shows the number of trays of eggs sold at the end of each day.



10 How many trays of eggs were sold altogether in the five days?

(1) 130

(2) 135

(3) 140

(4) 150

11 What percentage of the total number of trays of eggs were left unsold at the end of the five days?

(1) 25%

(2) 30%

(3) 35%

(4) 70%

(Go on to the next page)

Downloaded from SingaKids.com

12 A ribbon was cut into two pieces in the ratio 2 : 5. The difference in length between the two pieces was 15 cm. What was the length of the ribbon before it was cut?

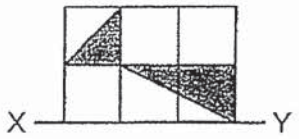
(1) 25 cm

(2) 35 cm

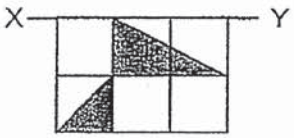
(3) 45 cm

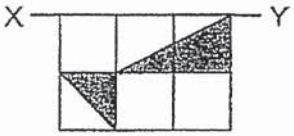
(4) 75 cm

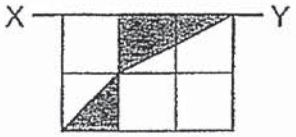
13 The figure below shows the top half of a symmetric figure. XY is the line of symmetry.

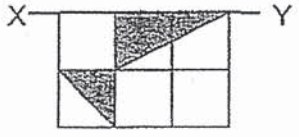


Which one of the following completes the symmetric figure?

(1)


(2)


(3)


(4)


(Go on to the next page)

Downloaded from SingaKids.com

14 Last year, Raine completed a race in 42.4 seconds. This year, she completed the same race 6.7 seconds faster. How long did she take to complete the race this year? Round your answer to the nearest second.

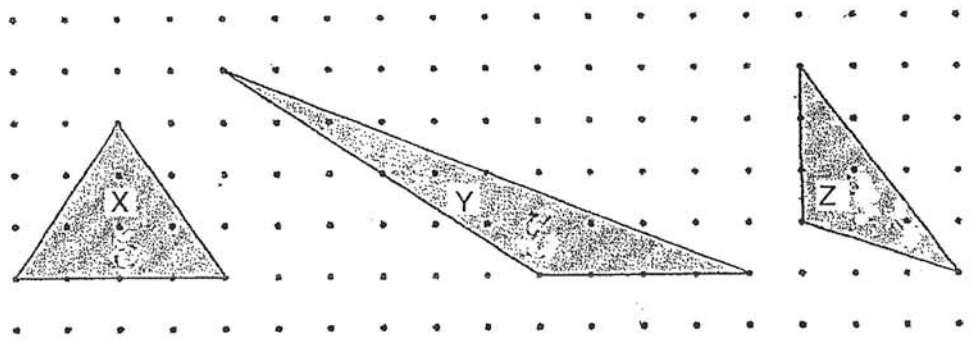
(1) 35 seconds

(2) 36 seconds

(3) 49 seconds

(4) 50 seconds

15 Three triangles, X, Y and Z, are drawn in the square grid below.



Arrange X, Y and Z from the smallest area to the largest area.

	Smallest		Largest
(1)	X,	Z,	Y
(2)	Y,	X,	Z
(3)	Z,	X,	Y
(4)	Z,	Y	X

(Go on to BOOKLET B)

Downloaded from SingaKids.com

HENRY PARK PRIMARY SCHOOL
2020 SEMESTRAL EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____ ( )

Class: Primary 5_____

/25

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

Downloaded from SingaKids.com

Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(5 marks)

Do not write in this space

16 Find the value of $30 - (6 + 12) \div 3 \times 2$

Ans: _____

17 Ray listed the common factors of 24 and 36 below.

1, 2, 4, 6

He missed out two common factors. What are the two missing factors?

Ans: _____ and _____

18 Write down one decimal between 2.1 and 2.11

Ans: _____

(Go on to the next page)

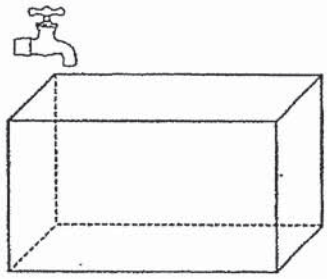
Downloaded from SingaKids.com

19 Express $\frac{9}{200}$ as a percentage.

Do not write in this space

Ans: _____ %

20 The figure below shows an empty tank below a tap. It takes 12 min to fill the tank completely with the tap turned on. What fraction of the tank will be filled in 4 minutes?



Ans: _____

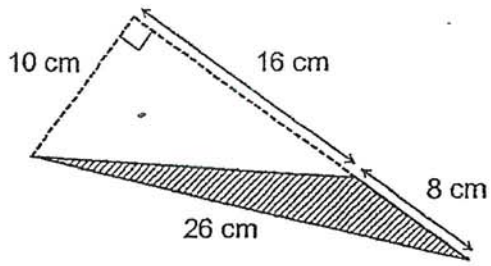
Downloaded from SingaKids.com

Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

Do not write in this space

21 Find the area of the shaded triangle.



Ans: _____ cm^2

22 There are 40 beads in a box. 25% of the beads are red, 30% of the beads are blue and the remaining beads are yellow. How many yellow beads are there?

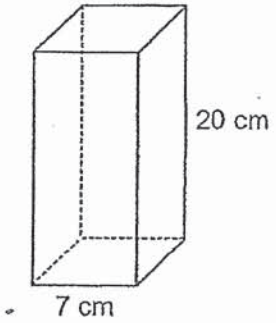
Ans: _____

(Go on to the next page)

Downloaded from SingaKids.com

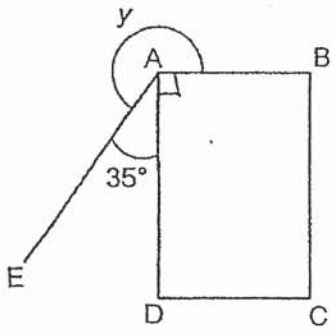
23 The figure shows a cuboid with a square base of side 7 cm and a height of 20 cm. What is the volume of the cuboid?

Do not write in this space



Ans: _____ cm^3

24 In the figure shown, ABCD is a rectangle and $\angle EAD = 35°$. Find $\angle y$.



Ans: _____ °

(Go on to the next page)

Downloaded from SingaKids.com

25 The table shows the airmail rates for sending letters to Malaysia.

Do not write in this space

Mass step not over	Rate
50 g	$0.90
100 g	$1.30
Per additional 50 g	$0.50

Ramesh sent a letter weighing 260 g to Malaysia by airmail. How much did he pay?

Ans: $ _____

26 Mrs Lim used 2.5 kg of flour to bake a cake and 2.12 kg of flour to bake 12 muffins. What is the total mass of flour (in kg) needed to bake 2 such cakes and 6 such muffins?

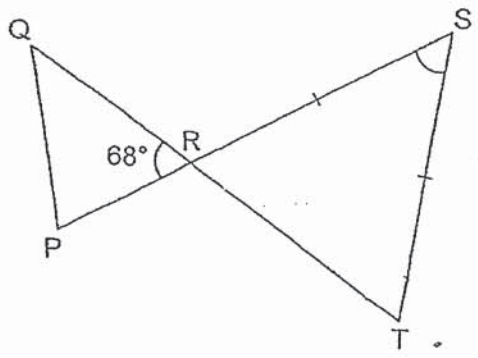
Ans: _____ kg

(Go on to the next page)

Downloaded from SingaKids.com

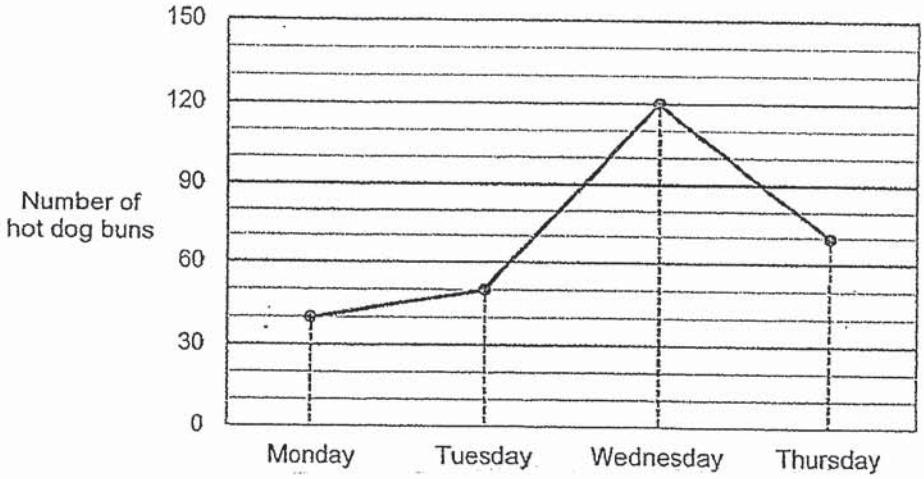
27 In the figure, PQR and RST are triangles. RS = ST. PRS and QRT are straight lines. ∠PRQ = 68°. Find ∠RST.

Do not write in this space



Ans: _____ °

28 The line graph below shows the number of hot dog buns sold from Monday to Thursday.



Express the number of hot dog buns sold on Wednesday as a fraction of the total number of hot dog buns sold. Leave your answer in the simplest form.

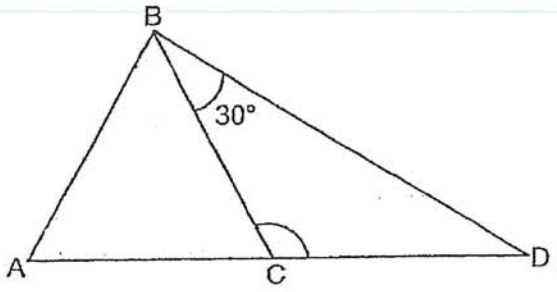
Ans: _____

(Go on to the next page)

Downloaded from SingaKids.com

29 The figure below is not drawn to scale.
ABC is an equilateral triangle, ACD is a straight line and ∠CBD = 30°.

Do not write in this space



(a) Find ∠BCD.

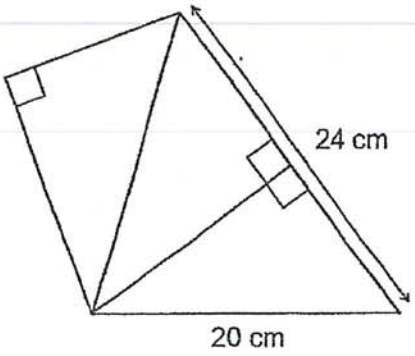
Ans: (a) _____ °

(b) *Circle the words that describe triangle BCD correctly in the following statement:*

Triangle BCD **(is / is not)** an isosceles triangle because

∠CBD **(is / is not)** equal to ∠BDC.

30 Nicole cut out three identical right-angled triangles. She joined them to form the figure shown below. The perimeter of the figure is 72 cm. Find the area of one such right-angled triangle.



Ans: _____ cm^2

Downloaded from SingaKids.com

Downloaded from SingaKids.com

HENRY PARK PRIMARY SCHOOL
2020 SEMESTRAL EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____ ( )

Class: Primary 5 _____

/ 55

Time for Paper 2: 1 h 30 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

Downloaded from SingaKids.com

Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

1 What is the price of the television set after adding 7% GST?



Ans: $ _____

2 The ratio of the number of cookies to the number of pies in a bakery is 5 : 7. Given that there are 126 pies, how many more cookies must be baked so that there is an equal number of cookies and pies in the bakery?

Ans: _____

(Go on to the next page)

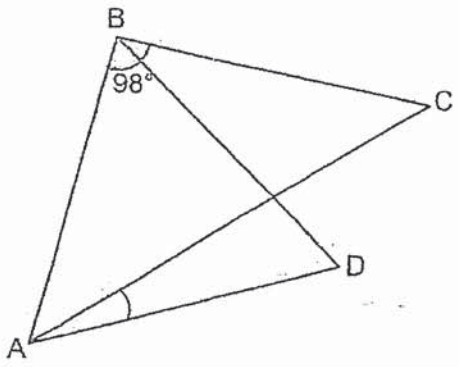
Downloaded from SingaKids.com

3 Vikram bought some red, blue and purple markers. $\frac{1}{4}$ of them were red markers and $\frac{4}{9}$ of them were blue markers. Given that Vikram bought 154 purple markers, how many markers did he buy in all?

Do not write in this space

Ans: _____

4 In the figure below, ABD is an equilateral triangle, ABC is an isosceles triangle where AB = BC and ∠ABC = 98°. Find ∠CAD.



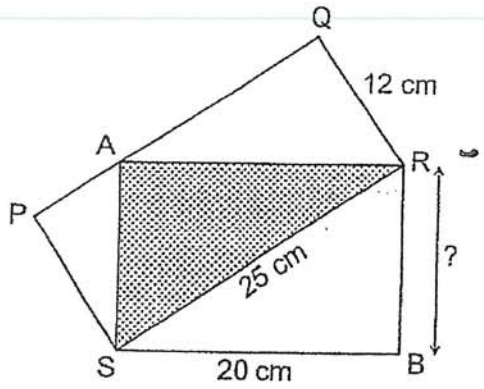
Ans: _____ °

(Go on to the next page)

Downloaded from SingaKids.com

5 The figure below shows two rectangles, PQRS and ARBS, where QR = 12 cm, SR = 25 cm and SB = 20 cm. PAQ is a straight line.

Do not write in this space



(a) Find the area of the shaded part of the figure.

(b) Find the length of RB.

Ans: (a) _____ cm^2

(b) _____ cm

(Go on to the next page)

Downloaded from SingaKids.com

For questions **6** to **17**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

(45 marks)

Do not write in this space

6 Andy and Ben had the same number of cards. Andy gave 96 cards to his friends and Ben gave 44 cards to his cousins. At the end, Ben had thrice as many cards left as Andy. How many cards did each of them have at first?

Ans: _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

7 Greg, Sue and Jonas had some stamps. Jonas had seven times as many stamps as Sue. The ratio of the total number of stamps Greg and Sue had to the total number of stamps Sue and Jonas had was 5 : 8.

Do not write in this space

(a) Find the ratio of the number of stamps Greg had to the number of stamps Sue had to the number of stamps Jonas had.

(b) Given that Jonas had 72 more stamps than Sue, how many stamps did Greg have?

Ans: (a) _____ [1]

(b) _____ [2]

(Go on to the next page)

Downloaded from SingaKids.com

8 The table shows the rate a shop charges for renting a bicycle.

Do not write in this space

	Rate
First 1 hour	\$15
Every additional $\frac{1}{2}$ hour or part thereof	\$5

(a) Farhan rented a bicycle for 2 hours. How much did he pay?

(b) Lisa rented a bicycle. She paid \$65 for the rental charges. Given that she returned the bicycle to the shop at 2.30 p.m., what would be the earliest time she started renting the bicycle?

Ans: (a) _____ [1]

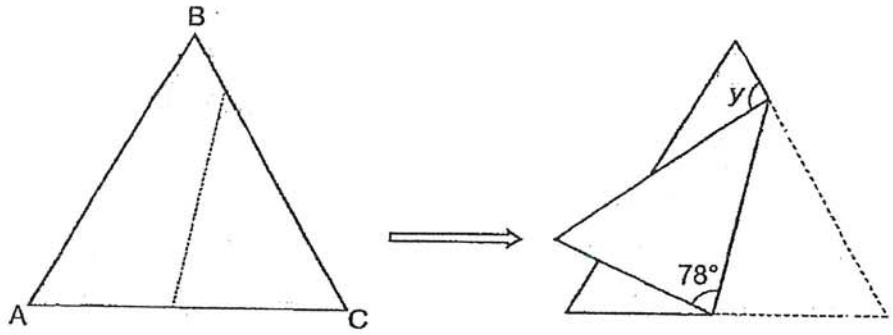
(b) _____ [2]

(Go on to the next page)

Downloaded from SingaKids.com

9 Sarah has a triangular piece of paper ABC where AB = BC = AC. She folded it along the dotted line as shown below. Find $\angle y$.

Do not write in this space



Before folding

After folding

Ans: _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

10 The table below shows the amount of money earned by a private-hire driver from Monday to Friday.

Do not write in this space

Monday	Tuesday	Wednesday	Thursday	Friday
$60	$240	$110	$90	$350

(a) What is the average amount of money that the driver earned from Monday to Friday?

(b) The average amount of money that the driver earned on Saturday and Sunday was $87 more than the average amount of money that he earned from Monday to Friday.

Write down one possible set of values for the amount of money that he earned on Saturday and Sunday.

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

Downloaded from SingaKids.com

11 Daisy has the same number of small and large pots. Each small pot weighs 1.05 kg less than each large pot. The total mass of all the large pots is 32.3 kg and the total mass of all the small pots is 14.45 kg. What is the mass of each large pot?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

12 Rahim spent $\frac{1}{6}$ of his money on appliances and an additional \$3500 on furniture. He spent $\frac{7}{8}$ of the remaining money on renovation. In the end, he had \$2900 left. How much money did Rahim have at first?

Do not write in this space

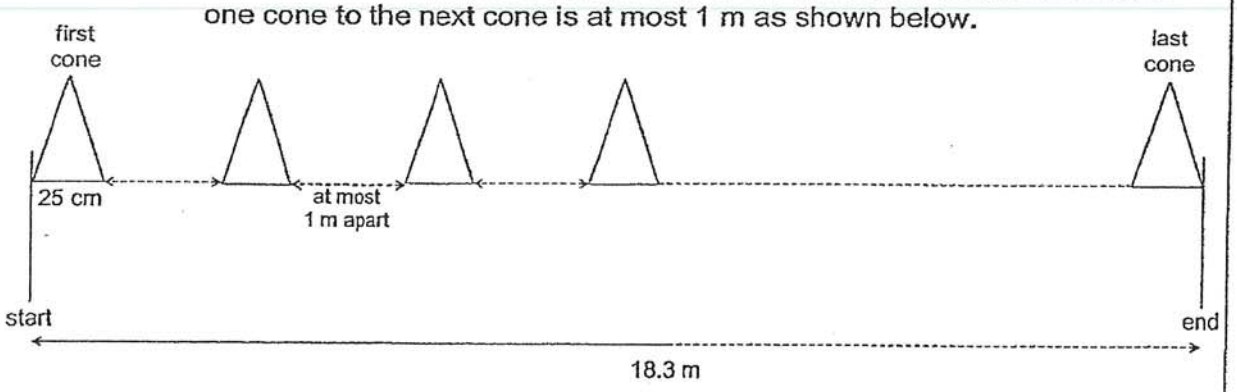
Ans: _____ [5]

(Go on to the next page)

Downloaded from SingaKids.com

13 Ms Chin places a number of identical cones along a running track. Each cone has a base of 25 cm. The first cone is placed at the start of the track and the last cone is placed at the end of the track. The distance between one cone to the next cone is at most 1 m as shown below.

Do not write in this space



Given that the distance of the running track is 18.3 m, what is the least number of cones Ms Chin places along the running track?

Ans: _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

14 Sam paid $216 for 3 similar pairs of pants and 5 similar shirts. He could not buy another pair of similar pants with his remaining money as he was short of $15. Instead, he bought another similar shirt and had $9 left.

Do not write in this space

(a) How much more did each pair of pants cost than each shirt?

(b) How much money did Sam have at first?

Ans: (a) _____ [1]

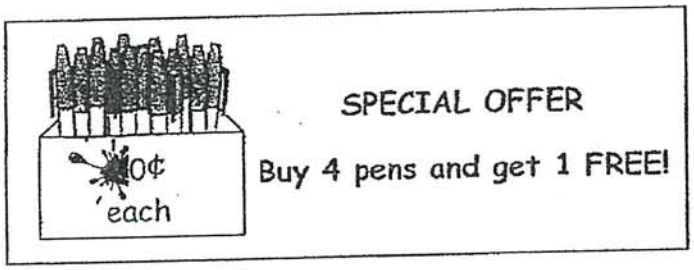
(b) _____ [4]

(Go on to the next page)

Downloaded from SingaKids.com

15 A bookshop is having a special offer. For every 4 pens bought, the bookshop offers 1 pen for free. The price of each pen printed in the advertisement is partly covered by a blot of ink as shown below.

Do not write in this space



(a) With $8, Peter can get at most 12 pens from the bookshop. What is the price of each pen printed in the advertisement?

(b) Sally needed 32 pens. What would be the least amount of money she had to pay?

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

16 Ms Tan baked some chocolate and vanilla cupcakes. After she sold 224 cupcakes, she had 576 cupcakes left. She had 96 more vanilla cupcakes than chocolate cupcakes left.

Do not write in this space

(a) How many chocolate cupcakes did she have left?

(b) Given that she sold $\frac{1}{4}$ of the chocolate cupcakes, what percentage of the vanilla cupcakes did she sell?

Ans: (a) _____ [1]

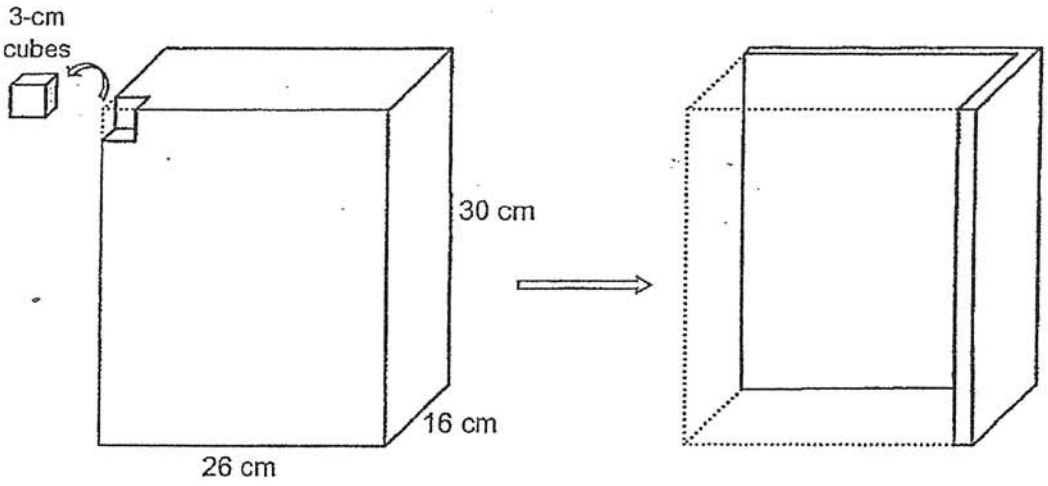
(b) _____ [3]

(Go on to the next page)

Downloaded from SingaKids.com

17 A carpenter had a rectangular block of wood measuring 26 cm by 16 cm by 30 cm. He cut out as many 3-cm cubes as he could from the block of wood. After that, he was left with some remaining wood as shown below.

Do not write in this space



Rectangular block of wood

Remaining wood

(a) How many 3-cm cubes did he cut out from the block of wood?

(b) Find the volume of the remaining wood.

Ans: (a) _____ [2]

(b) _____ [2]

Downloaded from SingaKids.com

Downloaded from SingaKids.com

ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : HENRY PARK
SUBJECT : MATHEMATICS
TERM : SA2

PAPER 1
BOOKLET A

Q1	4	Q2	3	Q3	1	Q4	2	Q5	2
Q6	3	Q7	4	Q8	1	Q9	4	Q10	3
Q11	2	Q12	2	Q13	2	Q14	2	Q15	3

BOOKLET B

Q16. 30 – 18 ÷ 3 x 2
= 30 – 6 x 2
= 30 – 12 = 18

Q17. 3 and 12

Q18. 2.101

Q19. $\frac{9}{200} = \frac{4.5}{100}$ =4.5%

Q20. 12 ÷ 4 = 3
$1 \div 3 = \frac{1}{3}$

Q21. $\frac{1}{2}$ x (16+8) x 10 = 120

$\frac{1}{2}$ x 16 x 10 = 80

120 – 80 = 40cm2

Q22. 40 ÷ 100 = 0.4
0.4 x 45 = 18

Q23. 7 x 7 x 20 = 980

Q24. 360 – 35 – 90 = 235°

Downloaded from SingaKids.com

Q25. 260-100 =160

160 ÷ 50 = 3R10

3+1=4

4 x 0.50 = 2

2+1.30=$3.30

Q26. 2.5 x 2 = 5

2.12 ÷ 2 = 1.06

5 + 1.06 = 6.06kg

Q27. 180 – 68 – 68 = 44°

Q28. $\frac{120}{40+50+120+70} = \frac{120}{280} = \frac{12}{28} = \frac{3}{7}$

Q29 a) 120°

b) Triangle BCD (IS) an isosceles triangle because <CBD (IS) equal to <BDC.

Q30. 24 ÷ 2 = 12

72 – 20 – 24 = 28

28 – 12 = 16

$\frac{1}{2}$ x 16 x 12 = 96cm2

PAPER 2

Q1. 1090 X $\frac{107}{100}$ = $1166.30

Q2. 7 – 5 = 2

126 ÷ 7 = 18

18 X 2 = 36

Q3. 1 - $\frac{1}{4}$ - $\frac{4}{9}$ = $\frac{11}{36}$

154 ÷ 11=14

14 X 36 = 504

Q4. 180 – 98 = 82

82 ÷ 2 = 41

60 – 41 = 19°

Q5 a) $\frac{1}{2}$ x 25 x 12 = 150cm2

b) 150 x 2 = 300

300 ÷ 20 = 15cm

Downloaded from SingaKids.com

Q6. 3u + 44 = 1u + 96

3u – 52 = 1u

52 ÷ 2 = 26

26 + 96 = 122

Q7 a) 4 : 1 : 7

b) 72 ÷ 6 = 12

12 x 4 = 48

Q8 a) $1 \div \frac{1}{2} = 2$

2 x 5 = 10

10 + 15 = $25

b) 8.30am

Q9. 180 – 78 – 60 = 42

180 – 42 – 42 = 96°

Q10 a) 60 + 240 + 110 + 90 + 350 = 850

850 ÷ 5 = $170

b) $170 + 87 = 257

257 x 2 = 514

250 + 264 = 514

ANS : $250 , $264

Q11. 32.3 – 14.45 = 17.85

17.85 ÷ 1.05 = 17

32.3 ÷ 17 = 1.9kg

Q12. 2900 x 8 = 23200

23200 + 3500 = 26700

26700 ÷ 5 = 5340

5340 x 6 = $32040

Q13. 18.3 x 100 = 1830

1830 – 25 – 25 = 1780

780÷(25+100) = 14R30

14 + 2 = 16

Q14 a) 15 + 9 = 24

b) 24 x 3 =72

216 – 72 = 144

144 ÷ 8 = 18

216 + 18 + 9 = 243

Downloaded from SingaKids.com

Q15 a) 12 ÷ 6 = 2

2 x 4 = 8

8 + 2 = 10

8 ÷ 10 = $0.80

b) 32 ÷ 5 = 6R2

6 x 4 = 24

24 + 2 = 26

26 x 0.80 = $20.80

Q16 a) 480 ÷ 2 = 240

b) 240 ÷ 3 = 80

224 – 80 = 144

240 + 96 = 336

336 + 144 = 480

$\frac{144}{480}$ x 100% = 30%

Q17 a) 8 x 5 x 10 = 400

b) 3 x 3 x 3 = 27

400 x 27 = 10800

26 x 16 x 30 = 12480

12480 – 10800 = 1680cm3

END.

Downloaded from SingaKids.com