METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2019
PRIMARY 6
MATHEMATICS

PAPER 1
BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 14 May 2019

/20

This booklet consists of **6** printed pages including this page.

www.TestPapersFree.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). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1 Express $37 + 12n - 2n + 7n$ in the simplest form.

(1) $37 + 3n$

(2) $37 + 17n$

(3) $49 - 9n$

(4) $49 + 5n$

2 $0.15 \times \square + 4 = 154$

What is the missing number in the box?

(1) 1

(2) 10

(3) 100

(4) 1000

3 The ratio of Hassan's age to Meng Li's age is 3 : 8. What fraction of their total age is Meng Li's age?

(1) $\frac{3}{11}$

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

(3) $\frac{8}{11}$

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

www.TestPapersFree.com

4 Express $\frac{2}{7}$ as a decimal corrected to 2 decimal places.

(1) 0.27

(2) 0.28

(3) 0.29

(4) 0.30

5 There are 70 fruits in a box, 56 are apples and the rest are pears. What is the ratio of the number of pears to the number of apples?

(1) 1 : 4

(2) 1 : 5

(3) 4 : 1

(4) 4 : 5

6 A box contains 200 blue, red and yellow marbles. There are 65 blue marbles, 45 red marbles and the rest are yellow. What percentage of the total number of marbles is yellow?

(1) 45%

(2) 50%

(3) 55%

(4) 90%

7 Gayle has p stickers. Zahra has three times as many stickers as Gayle and Lee Qin has 4 stickers fewer than Gayle. How many stickers do they have altogether?

(1) $(4p + 4)$

(2) $(5p + 4)$

(3) $(5p - 4)$

(4) $(7p - 4)$

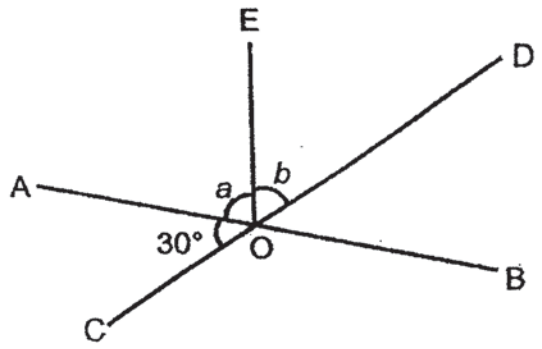
www.TestPapersFree.com

8 Which one of the following shapes does not have both of the properties below?

(a) Diagonally opposite angles are equal.
(b) Angles between parallel lines are equal.

(1) Rhombus
(2) Rectangle
(3) Trapezium
(4) Parallelogram

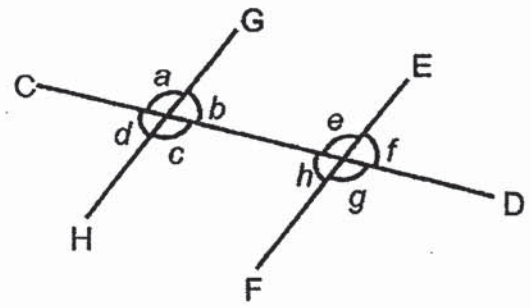
9 In the figure, AB, CD and OE are straight lines. $\angle a = \angle b$. Find $\angle a$.



(1) 30°
(2) 60°
(3) 75°
(4) 150°

www.TestPapersFree.com

10 In the figure below, CD, EF and GH are straight lines. EF and GH are parallel to each other.



Which one of the following statements is true?

(1) $\angle d = \angle e$

(2) $\angle c = \angle g$

(3) $\angle a = \angle f$

(4) $\angle b = \angle e$

11 Find the value of $\frac{3}{10} \div \frac{2}{5}$

(1) $\frac{3}{4}$

(2) $\frac{4}{3}$

(3) $\frac{3}{25}$

(4) $\frac{25}{3}$

12 Mother had $\frac{5}{9}$ m of ribbon. She used $\frac{3}{5}$ of it to tie a present. How much ribbon had she left?

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

(2) $\frac{1}{3}$ m

(3) $\frac{2}{45}$ m

(4) $\frac{2}{9}$ m

www.TestPapersFree.com

13 Mr Tan spent 10% of his money on food and 15% on transport. He then had $300 left. How much money did he have at first?

(1) $100

(2) $200

(3) $400

(4) $900

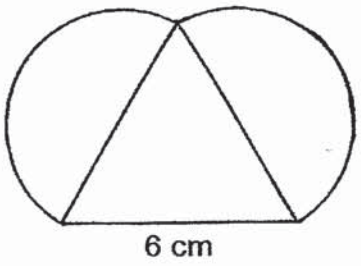
14 The figure is formed by an equilateral triangle and 2 semicircles of diameter 6 cm. Find the perimeter of the figure. Leave your answer in terms of π.

(1) $(6\pi + 6)$ cm

(2) $(6\pi + 18)$ cm

(3) $(9\pi + 6)$ cm

(4) $(12\pi + 18)$ cm



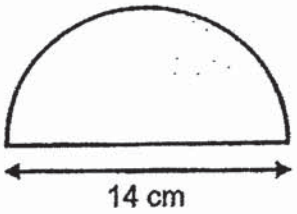
15 The figure is a semicircle of diameter 14 cm. What is the area of the figure? Take $\pi = \frac{22}{7}$

(1) 22 cm^2

(2) 44 cm^2

(3) 77 cm^2

(4) 154 cm^2



www.TestPapersFree.com

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2019
PRIMARY 6
MATHEMATICS

PAPER 1
BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 6._____

Date: 14 May 2019

Parent's Signature: _____

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 25**
Paper 2	**/ 55**
TOTAL	**/ 100**

This booklet consists of **8** printed pages including this page.

www.TestPapersFree.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 Write in two million, ten thousand and nine in numerals.

Ans: _____

17 A number when rounded to the nearest hundred is 1 600.
What is the greatest possible whole number?

Ans: _____

18 Find the value of $\frac{1}{10} + \frac{9}{1000}$. Give your answer as a decimal.

Ans: _____

www.TestPapersFree.com

19 Express 0.9% as a fraction.

Do not write in this space

Ans: _____

20 Mr Wong has a 10-m long string. He cuts the string into shorter lengths of $\frac{5}{6}$ m each. How many such shorter pieces of string will he get?

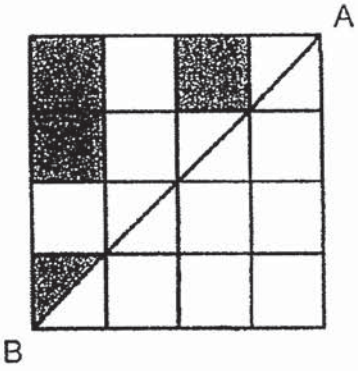
Ans: _____

www.TestPapersFree.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 Shade the least number of squares or triangles, such that AB is the line of symmetry.



22 Figure A is made up of 2 identical quadrants.

Both Figure A and Figure B have the same diameter of 20 cm.

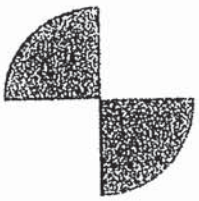


Figure A

Figure B

Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

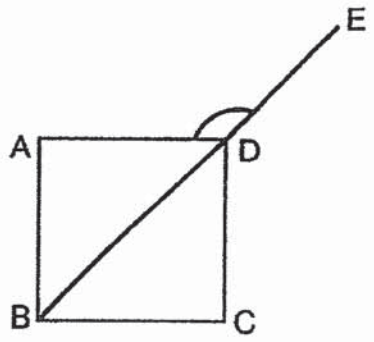
Statement	True	False	Not possible to tell
Both Figure A and Figure B have the same perimeter.			
Both Figure A and Figure B have the same area.			

(Go on to the next page)

www.TestPapersFree.com

23 In the figure below, ABCD is a square. Find ∠ADE.

Do not write in this space



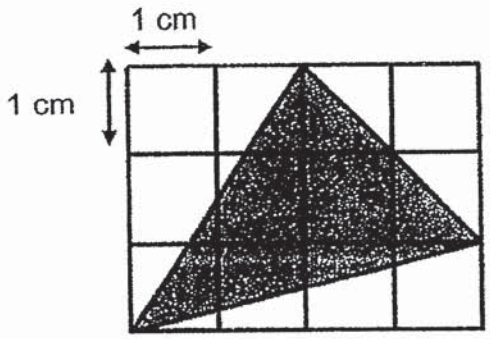
Ans: _____ °

24 James bought $1\frac{1}{8}$ kg of beef. He used $\frac{3}{4}$ kg of it to make some beef patties. How much beef had he left?

Ans: _____ kg

www.TestPapersFree.com

25 What fraction of the figure is shaded?



Do not write in this space

Ans: _____

26 There were 50 children at a party. Each child received a packet of sweets which had a mass of 0.15 kg. What was the total mass of the sweets that was given out?

Ans: _____ g

(Go on to the next page)

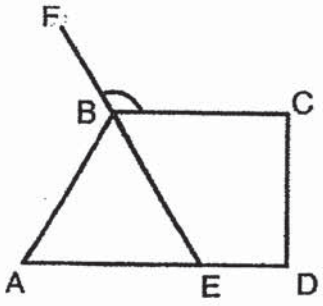
www.TestPapersFree.com

27 Mr Tan bought $7d$ pencils. He gave 3 pencils to each of his pupils and had $2d$ pencils left. Express the number of pupils Mr Tan had in terms of d.

Do not write in this space

Ans: _____

28 In the diagram below, ABE is an equilateral triangle. BC is parallel to AD and DC is perpendicular to BC. Find ∠FBC.



Ans: _____ °

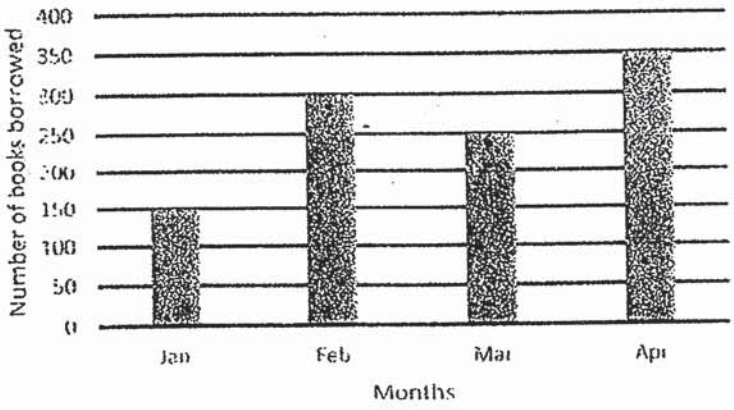
www.TestPapersFree.com

29 The figure is made up of 4 identical rectangles. What is the ratio of the shaded area to the total area of 4 identical rectangles?

Do not write in this space

Ans: _____

30 The graph below shows the total number of books borrowed from January to April.



(a) In which month was there a decrease in the number of books borrowed?

(b) What was the percentage increase in the number of books borrowed in February compared to January?

Ans: (a) _____

(b) _____

End of Paper

www.TestPapersFree.com

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2019
PRIMARY 6
MATHEMATICS

PAPER 2

Duration: 1h 30 min

INSTRUCTIONS TO CANDIDATES

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.
The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 6._____

Date: 14 May 2019

55

Parent's Signature: _____

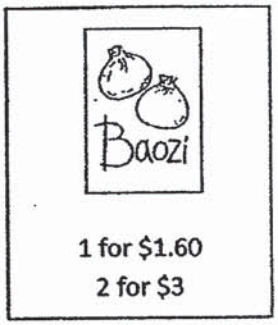
This booklet consists of **14** printed pages including this page.

www.TestPapersFree.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. (10 marks)

Do not write in this space

1 Buns were sold at $1.60 each or 2 for $3. What was the greatest number of buns that Siti could buy with $20?



Ans: _____

2 Ben had enough money to buy either 4 notebooks or 20 exercise books. He bought 5 exercise books and some note books. How many notebooks did he buy?

Ans: _____

www.TestPapersFree.com

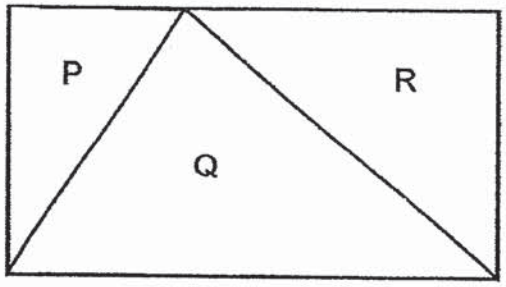
3 Find the value of $6 + \frac{3n}{5}$ when $n = 7$.

Give your answer as a mixed number in the simplest form.

Do not write in this space

Ans: _____

4 The figure below is a rectangle. The ratio of the area P to the area of Q is 3 : 7. What is the ratio of the area of Q to the area of R?



Ans: _____

www.TestPapersFree.com

5 May bought 160 red and blue buttons. 25% of the buttons bought were red. May used 75% of the blue buttons for art work.

How many blue buttons did May use?

Do not write in this space

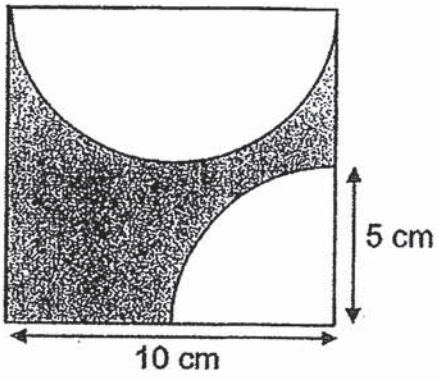
Ans: _____

www.TestPapersFree.com

For questions **6** to **17**, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

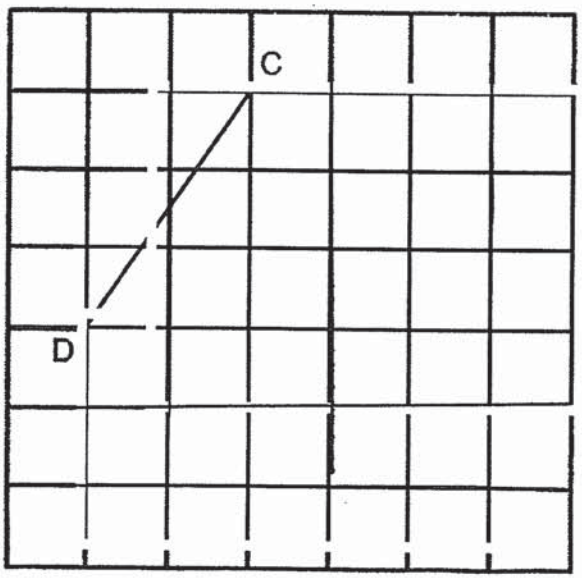
Do not write in this space

6 The figure shows a square of side 10 cm, a semicircle and a quadrant of radius 5 cm. Find the perimeter of the shaded part. Take $\pi = 3.14$.



Ans: _____ [3]

7 The grid below shows a straight line, CD. Draw 3 more lines to form a square CDEF. Label your diagram clearly. [3]



www.TestPapersFree.com

8 Gavin had some chicken pies and vegetable pies in the ratio of 5 : 2. He sold 18 chicken pies and made 15 more vegetable pies. In the end, he has equal number of chicken pies and vegetable pies. How many vegetables pies did he have at first?

Do not write in this space

Ans: _____ [3]

9 Su Mei is k years older than her sister. The sum of their ages is 38 years.

(a) How old is Su Mei now? Express Su Mei's age is terms of k.

(b) If $k = 6$, how old will Su Mei be in 7 years' time?

Ans: (a)_____ [1]

(b)_____ [2]

www.TestPapersFree.com

10 The books in a library are packed equally into Box A and Box B. The ratio of the number of fiction books to the number of non-fiction books in Box A is 2 : 1. The ratio of the number of fiction books to the number of non-fiction books in Box B is 4 : 11. What is the ratio of the total number of fiction books to the total number of non-fiction books in the library?

Do not write in this space

Ans: _____ [3]

www.TestPapersFree.com

11 Diana has 1625 mℓ of orange juice in a jug. She poured the juice into similar glasses, filling each glass with 250 mℓ of orange juice.

(a) What was the maximum number of such glasses Diana could fill?

(b) How much of the orange juice was left in the jug?
Give your answer in litres.

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

www.TestPapersFree.com

12 There were 350 goldfish and guppies in a shop. 20% of them were goldfish. After some goldfish were added, the percentage of goldfish increased to 30%. How many goldfish were added?

Do not write in this space

Ans: _____ [4]

www.TestPapersFree.com

13 In May, Mr Ahmad saved $\frac{1}{3}$ of his salary and used $\frac{1}{5}$ of his monthly salary to buy a mobile phone. He spent $\frac{3}{8}$ of the remainder on transport and the rest of the \$1750 was spent on food.

(a) What fraction of his monthly salary in May was spent on food?

(b) What was Mr Ahmad's monthly salary in May?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

www.TestPapersFree.com

14 The figures below are formed using similar matchsticks and dots.

Do not write in this space

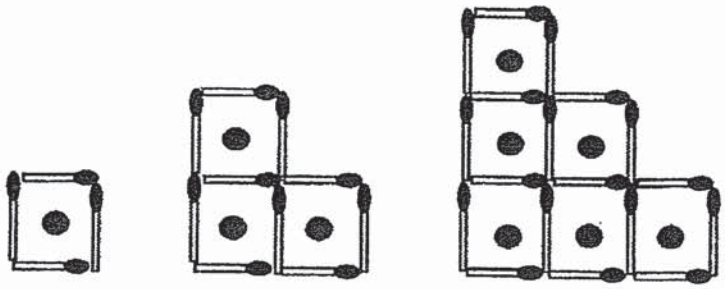


Figure 1 Figure 2 Figure 3

(a) Complete the following table.

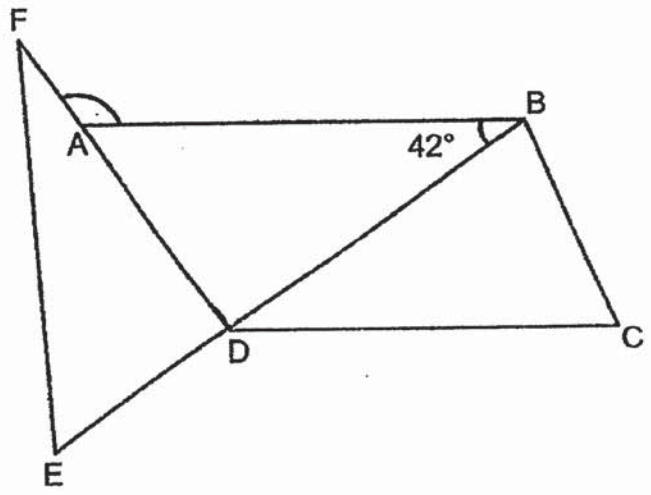
Figure Number	Number of dots	Number of matchsticks
1	1	4
2	3	10
3	6	18
4	(i) _____ [1]	(ii) _____ [1]

Ans: (b) _____ [2]

www.TestPapersFree.com

15 In the diagram below, EDB is a straight line and AB is parallel to DC. $\angle ABD = 42°$ and BD = CD.

Do not write in this space



(a) Find $\angle DCB$.

(b) Find $\angle FAB$.

Ans: (a) _____ [2]

(b) _____ [2]

www.TestPapersFree.com

16 Mary has $\frac{4}{7}$ as many stickers as Sandy and $\frac{2}{5}$ as many stickers as Cindy.

Cindy has 15 more stickers than Sandy.

(a) What fraction of Cindy's stickers is Sandy's stickers?

(b) How many stickers do the 3 girls have altogether?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

www.TestPapersFree.com

17

ABC Bubble Tea

$4.50 per cup

For every 5 cups of bubble tea purchased,

a 20% discount will be given to the 5th cup.

Each cup of bubble tea cost $4.50 before discount.

(a) How much did Mrs Yeo pay for 5 cups of bubble tea?

(b) Mrs Yeo paid $151.20 for some cups of bubble tea.
How many cups of bubble tea did she buy?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper

www.TestPapersFree.com

www.TestPapersFree.com

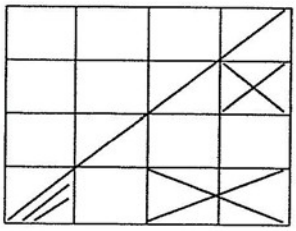
SCHOOL : MGS PRIMARY SCHOOL
LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : 2019 SA1

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	3	3	1	1	3	3	3	2

Q 11	Q12	Q13	Q14	Q15
1	4	3	1	3

PAPER 1 BOOKLET B

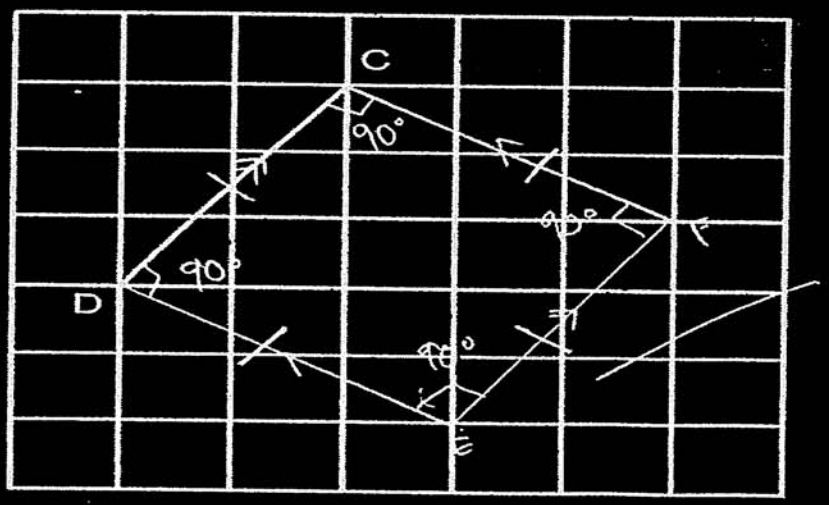
Q16)	2010009
Q17)	1649
Q18)	$\frac{1}{10} + \frac{9}{1000} = \frac{100}{1000} + \frac{9}{1000} = \frac{109}{1000} = 0.109$
Q19)	$\frac{9}{1000}$
Q20)	$10 \div \frac{5}{6} = 10 \times \frac{6}{5} = 12$
Q21)	
Q22)	False True
Q23)	$180° - 45° = 135°$
Q24)	$\frac{3}{4} \times 2 = \frac{6}{8}$ $1\frac{1}{8} - \frac{6}{8} = \frac{9}{8} - \frac{6}{8} = \frac{3}{8}$ kg
Q25)	$2 \times 3 \times \frac{1}{2} = 3(A)$ $4 \times 1 \times \frac{1}{2} = 2\ (B)$

www.TestPapersFree.com

	$2 \times 2 \times \frac{1}{2} = 2(c)$ $4 \times 3 = 12$ $12 - 2 - 2 - 3 = 5$ →Ans$\frac{5}{12}$
Q26)	1.5 x 5 = 7.5 7.5kg = 7500g
Q27)	7d – 2d = 5d 5d ÷3 = $\frac{5d}{3}$
Q28)	180° – 60° = 120° 120° – 60° = 60° 180° – 60° = 120°
Q29)	Shaded Total 1.5 : 4 3 : 8
Q30)	a)March b)100%

PAPER 2

Q1)	\$20÷\$3 ≈6 6 x 2 = 12 (buns) 6 x \$3 = \$18 (cost) \$20 – \$18 = \$2 \$2 – \$1.60 = \$0.40 (1 bun) 12 + 1 = 13 The greatest is 13.
Q2)	4 note book→20 exercise book 1 note book→5 exercise book 5 ÷ 20 x 4 = 1 4 – 1 = 3
Q3)	$6 + \frac{3x7}{5} = 6 + \frac{21}{5}$ $= 6 + \frac{21}{5}$ $= 6\frac{21}{5}$ $= 10\frac{1}{5}$
Q4)	P : Q 3 : 7

	Area of Q = $\frac{1}{2}$ Area of rectangle $7 = \frac{1}{2}$ Area of rectangle Area of rectangle = 14 $14 - 3 - 7 = 4$ (Area of R) Ans : 7 : 4
Q5)	25% →Red (160 ÷100 x 25 = 40) 75% →blue (160 ÷ 100 x 75 = 120) 120÷100 x 75 = 90
Q6)	Arc of quadrant = 2πr = (2x 3.14 x 5 x ¼)cm = 7.85cm Arc semicircle = 2πr =(2 x 3.14 x 5 x ½)cm = 15.7cm 15.7cm + 5cm + 7.85cm + 5cm + 10cm = 43.55cm
Q7)	
Q8)	15 + 18 = 33 33 ÷ 3 = 11 11 x 2 = 22
Q9)	a) $(\frac{38+k}{2})$ b)(38+6)÷2 = 22 22 + 7 = 29
Q10)	Box A: F : NF = 2 : 1; Total 3 x 5 = 15u Box B: F : NF = 4 : 11; total 15

	10 + 4 = 14 11 + 5 = 16 F NF 14 : 16 7 : 8 The ratio is 7 : 8
Q11)	a)1625ml ÷250ml = 6.5 Diana could fill 6 glasss b)6 x 250ml = 1500ml 1625ml – 1500ml = 125ml 125ml = 0.125L
Q12)	28u + 7u = 35u 35u = 350 12u – 7u = 5u 5u = 350 ÷35 x 5 = 50
Q13)	a)$\frac{5}{8}$ x $\frac{7}{15}$ = $\frac{7}{24}$ b)\$1750 ÷7 x 24 = \$6000
Q14)	a)i)10 ii)28 b)15
Q15)	a)(180° – 42°) ÷ 2 = 69° b)180° – 90° = 48° 180° – 48° = 132°
Q16)	a)Mary : Sandy Mary : Cindy 4 : 7 2 : 5 4 : 10 = $\frac{7}{10}$of Cindy's is Sandy b)10 – 7 = 3 3u →15 15 ÷ 3 = 5 4u + 10u + 7u = 21u 21u →5 x 21 = 105
Q17)	a)\$(4.50 ÷ 100 x 80) = \$3.60 (discounted) \$3.60 + (\$4.50 x 4) = \$21.60 b)\$151.20 ÷ \$21.60 = 7 1 x 7 = 7 7 x 4 = 28 28 + 7 = 35