



END-OF-YEAR EXAMINATION 2022 PRIMARY 5 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 5.

Date: 2 November 2022

This booklet consists of 7 printed pages including this page.

4.

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)

2

In 6 475 123, which digit is in the hundred thousands place?

- (1) 7
 (2) 6
 (3) 5
- 2 54 ~ 36 ÷ 3 x 4 = _____
 - (1) 6

(4)

4

1

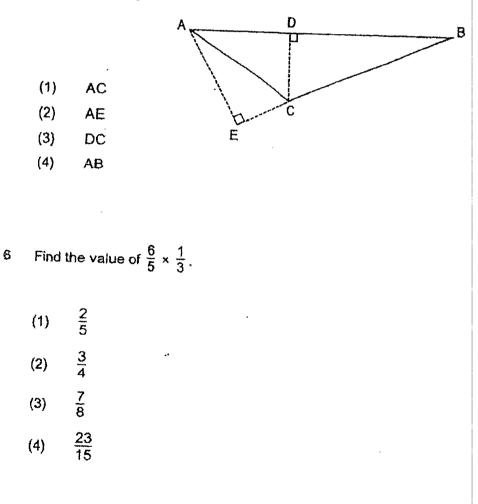
- (2) 24
- (3) 51
- (4) 168

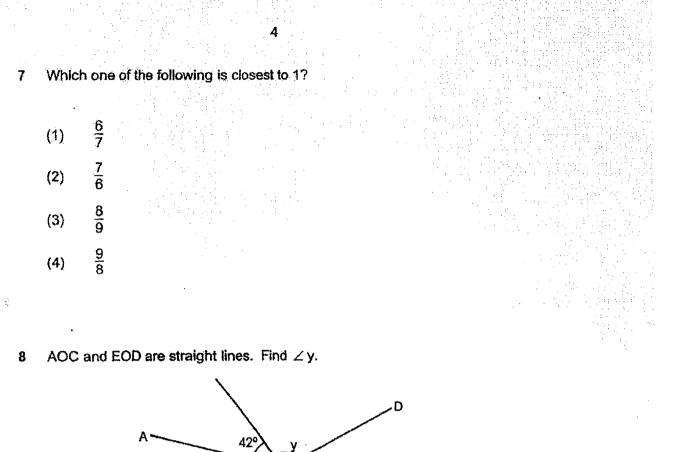
3 10.060km = _____ m

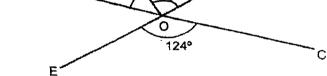
- (1) 106
- (2) 1006
- (3) 10 006
- (4) 10 060

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- 4 Round 199 654 to the nearest 1000.
 - (1) 190 000
 - (2) 198 000
 - (3) 199 000
 - (4) 200 000
- 5 BC is the base of Triangle ABC. Which of the following is the corresponding height of Triangle ABC?







- (1) 96°
- (2) 82°
- (3) 69°
- (4) 56°

9 Express 0.053 as a percentage.

- (1) 0.053%
- (2) 0.53%
- (3) 5.3%
- (4) 53%

10 Mrs Muthu bought $\frac{3}{4}$ kg of coconut milk. She used $\frac{2}{5}$ of the coconut milk. How much coconut milk did she have left?

5

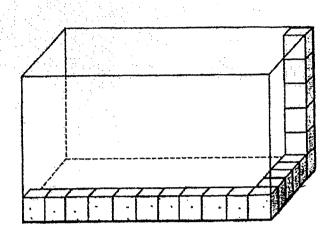
- (1) $\frac{9}{20}$ kg (2) $\frac{7}{20}$ kg (3) $\frac{7}{10}$ kg (4) $\frac{3}{10}$ kg
- 11 The ratio of the number of necklaces to the number of bracelets is 7 : 2.
- •

There are 126⁻necklaces and bracelets altogether. How many more necklaces than bracelets are there?

- (1) 98
- (2) 70
- (3) 18
- (4) 14
- 12 There are 560 performers at the stadium. $\frac{1}{4}$ of them are children. $\frac{1}{5}$ of the adults are women and the rest are men. How many men are there at the stadium?
 - (1) 448
 - (2) 336
 - (3) 308
 - (4) 252

13 A rectangular glass container is partially filled with 1-cm cubes as shown. What is the capacity of the glass container?

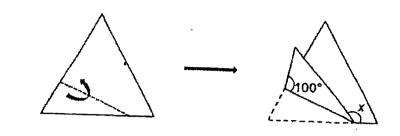
6



- (1) 275 cm^3
- (2) 300 cm³
- (3) 330 cm³
- (4) 396 cm³
- 14 Printer A prints at a rate of 50 pages per minute. Printer B prints at a rate of 40 pages per minute. How long will it take both printers to print a total of 1800 pages?
 - (1) 12 min
 - (2) . 20 min
 - (3) 81 min
 - (4) 180 min

..

15 A plece of paper in the shape of an equilateral triangle is folded along the dotted line as shown. Find $\angle x$.



- (1) 20°
- (2) 40°
- (3) 140°
- (4) 160°

(Go on to Booklet B)

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END-OF-YEAR EXAMINATION 2022 PRIMARY 5 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 **<u>NOT</u>** allowed.

Name: _____()

Class: Primary 5.____

Date: 2 November 2022

Parent's Signature:

e.

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

This booklet consists of 9 printed pages including this page.

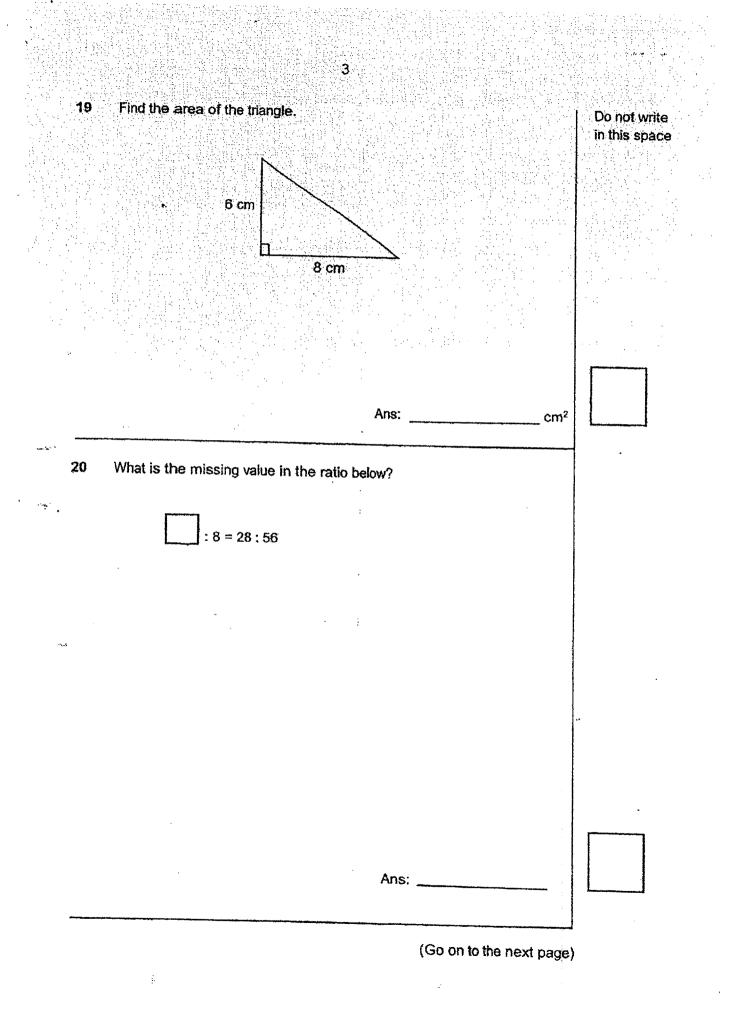
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| stions 16 to 20 carry 1 mark each. Write your answers in the spaces ided. For questions which require units, give your answers in the units ed. (5 marks) | Do not write in this space |
|---|---|
| 243 x 3000 = | |
| Ans: | |
| Find the value of (33 + 4 x 25) – (100 – 30 ÷ 6). | |
| | |
| |] |
| Ans: | |
| Mary poured 7160 ml of orange juice equally into 40 glasses. How much juice was there in each glass? | |
| | |
| | 1 |
| Ans:mł | |
| | ided. For questions which require units, give your answers in the units ided. For questions which require units, give your answers in the units ided. For questions which require units, give your answers in the units 243 x 3000 = Ans: Ans: Find the value of (33 + 4 x 25) - (100 - 30 + 6). Ans: Ans: Mary poured 7160 ml of orange juice equally into 40 glasses. How much juice was there in each glass? |



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)

The table shows the time taken for Jane to swim 50 m recorded on 21 different days. Study the table and answer the following questions.

| Day 1 | 22.5 s |
|-------|--------|
| Day 2 | 21.8 s |
| Day 3 | 24.5 s |
| Day 4 | 23.2 s |

(a) On which day did Jane clock the fastest time?

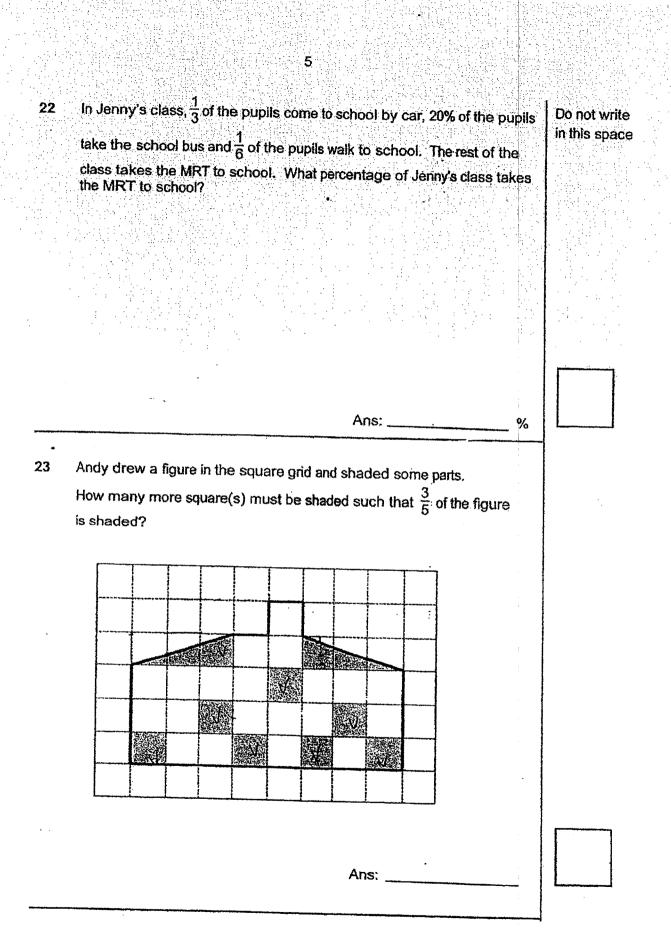
4 days?

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Ans: (a) Day _ (b) What was the average time taken for Jane to swim 50 m over the Ans: (b) s

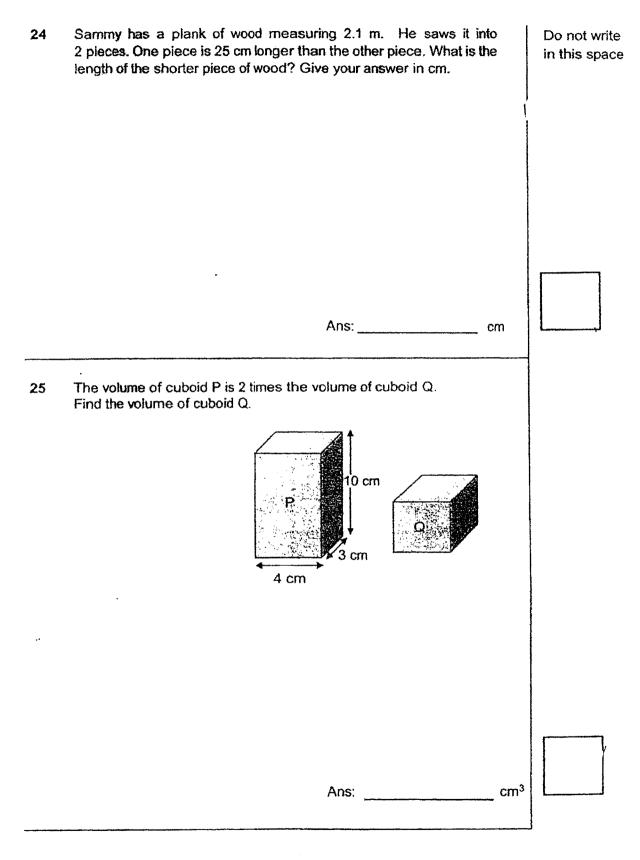
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There are some books on a shelf. $\frac{3}{5}$ of the books are fiction while the rest are non-fiction, $\frac{2}{3}$ of the non-fiction books are in Chinese while the rest are in Malay. There are fewer children's fiction books than adult fiction books.

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

| · | True | False | Not possible to tell |
|---|------|-------|-------------------------|
| (a) There are fewer children's fiction books than Malay non- fiction books. | | | |
| (b) The greatest number of books on the shelf are adult fiction books. | | | |

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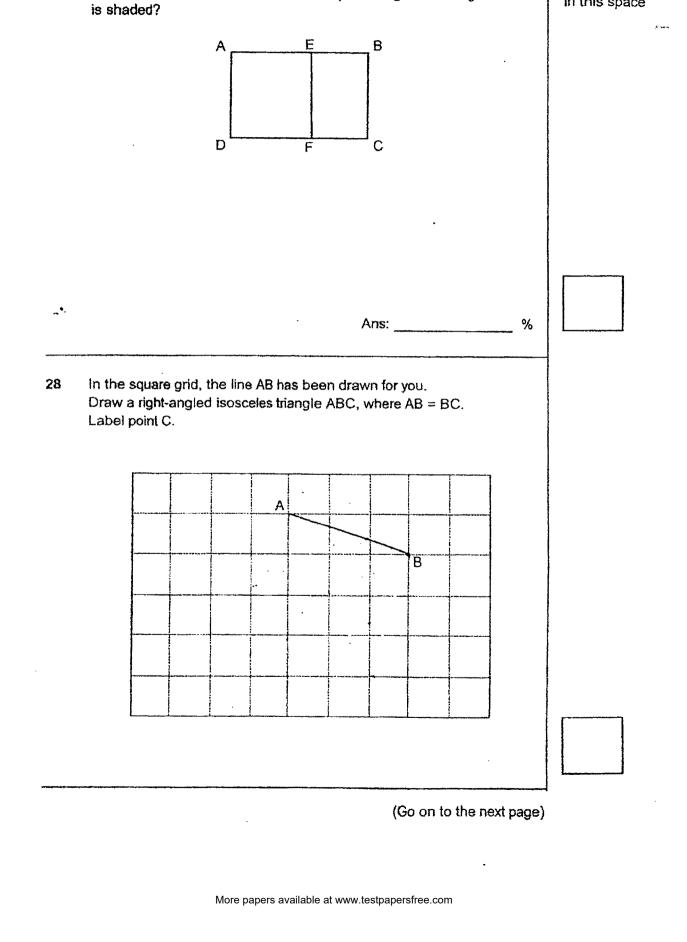
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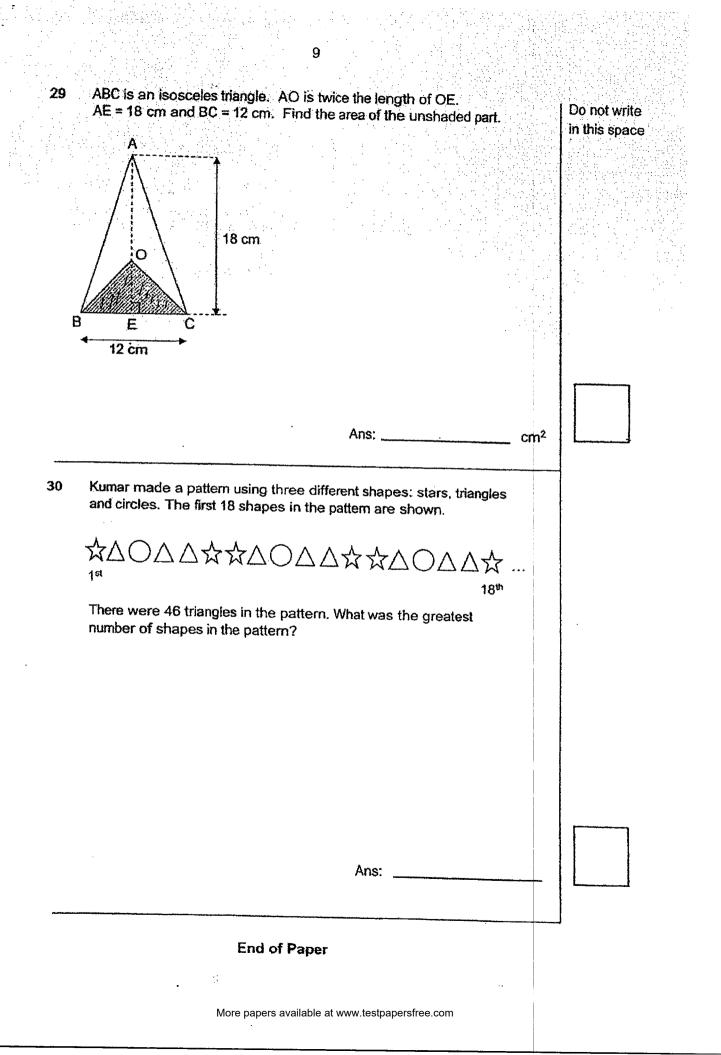
in this space

The ratio of the AE to EB is 3 : 2. What percentage of rectangle ABCD

In the diagram, ABCD is a rectangle and AEFD is a square.

27





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METHODIST GIRLS' SCHOOL (PRIMARY)



END-OF-YEAR EXAMINATION 2022 PRIMARY 5 MATHEMATICS

PAPER 2

Duration: 1 h 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.

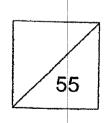
Write your answers in this booklet.

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

Name: _____ ()

Class: Primary 5.

Date: 2 November 2022



This booklet consists of 17 printed pages including this page.

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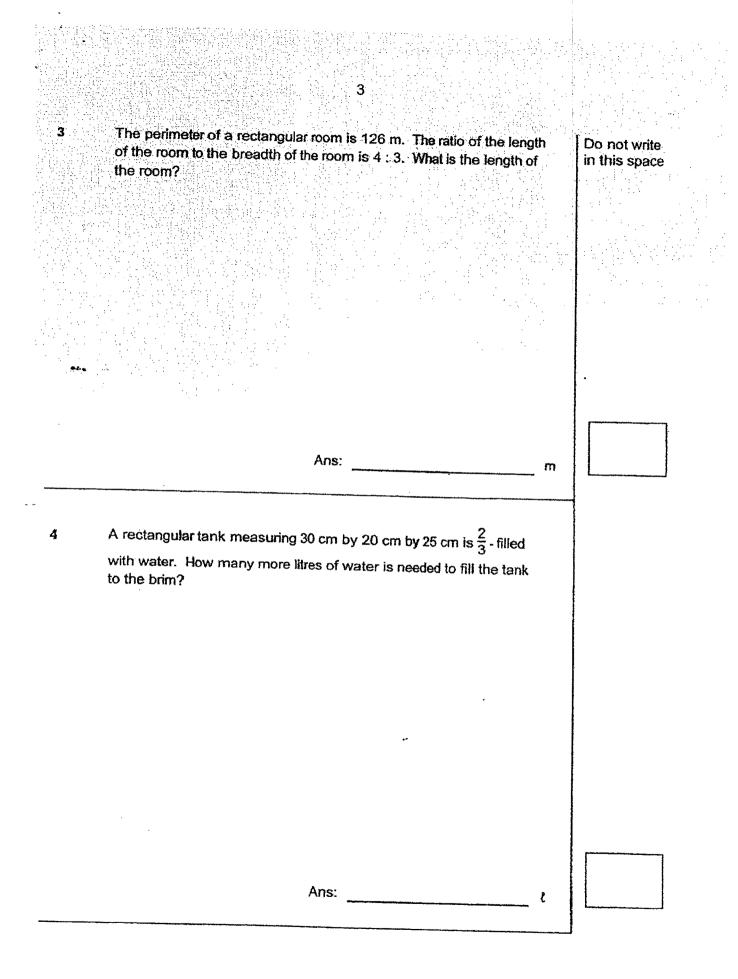
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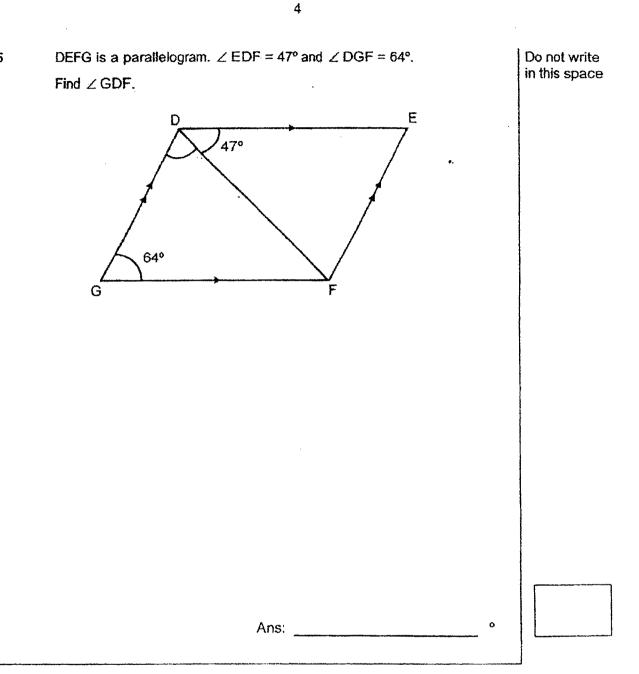
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| answ | stions 1 to 5 carry 2 marks each. Show your working clearly and write your vers in the spaces provided. For questions which require units, give your vers in the units stated. (10 marks) | Do not write in this space |
|------|---|-------------------------------|
| 1 | Meiling bought 3500 g of flour. She gave $\frac{1}{2}$ of it to her sister and used | |
| | 400 g to bake a cake. How much flour had she left? Give your answer in kg. | |
| | | |
| | | |
| | | |
| | | |
| | Ans: kg | |
| 2 | For every \$4 that Jimmy saved, his father gave him another \$2.50. How much would Jimmy's father have given him when he had a total of \$157? | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Ans: \$ | [[] |
| | | |
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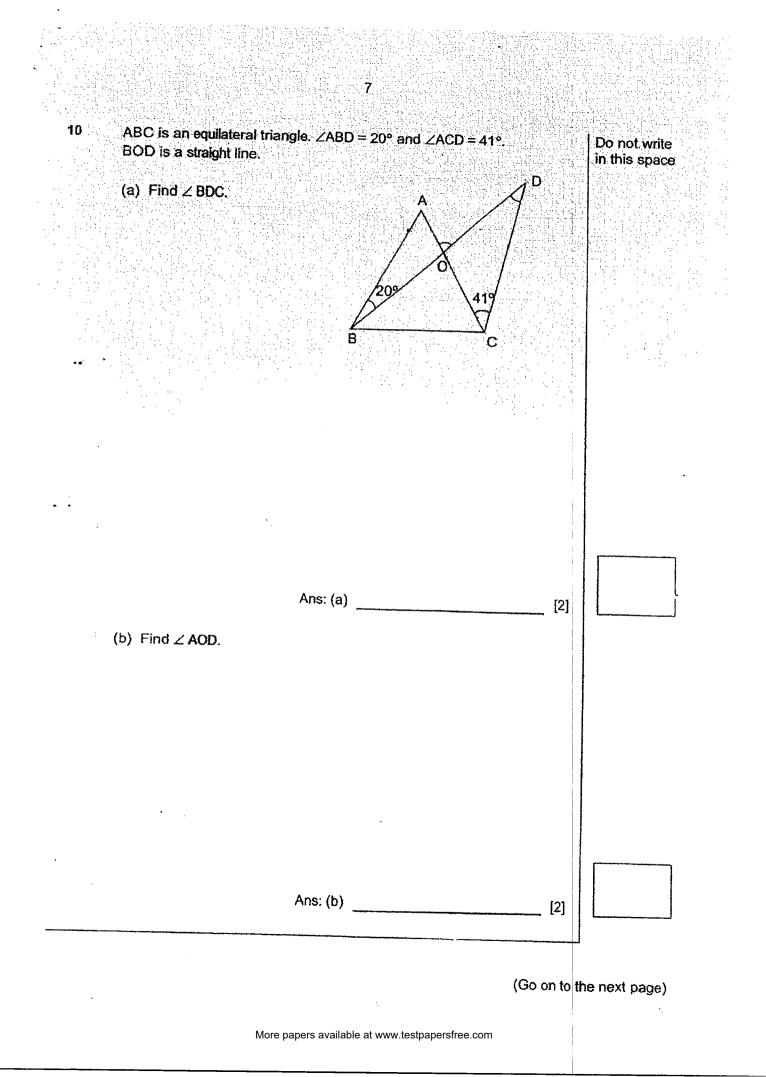
| puc | estions to 6 to 17, show your workings clearly and write your answers in the s provided. The number of marks available is shown in brackets [] at the each question or part-question. (45 marks) | Do not write in this space |
|-----|--|-------------------------------|
| | There are 150 items in a bag. 48% of the items are pens. The rest of the items are erasers, rulers and 48 pencils. The ratio of the number of erasers to the number of rulers is the same as the ratio of the number of pens to the number of pencils. How many rulers are there in the bag? | |
| | Ans: [3] | |
| | Danny had a sum of money. He spent \$315 on a mobile phone and $\frac{3}{5}$ of the remaining money on a headphone. He then had $\frac{1}{10}$ of the sum of money left. How much money did Danny have at first? | |
| | | · |
| | Ans: [3] | |

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8 On Monday, the number of boys who registered for a contest was Do not write in this space three times the number of girls. On Tuesday, another 50 boys registered for the contest while 20 girls withdrew from it. A total of 2454 registrations were confirmed at the end of the two days. How many more boys than girls registered for the contest? [3] Ans: 9 ABCD is a trapezium. ACD is an isosceles triangle where AD = DC. $\angle ABC = 74^{\circ}$ and $\angle ACB = 86^{\circ}$. Find $\angle ADC$. B 740 86° С D , Ans: [3]



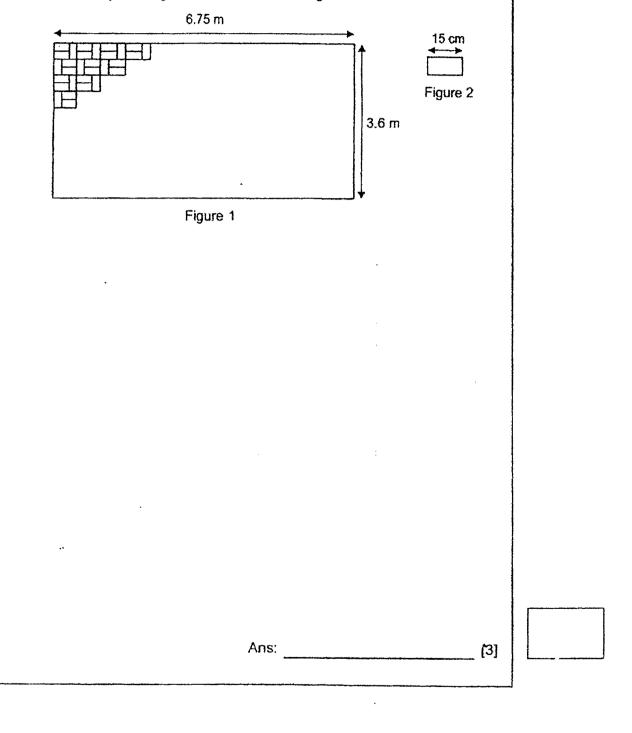
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11

Figure 1 shows part of the pattern formed when identical rectangular tiles were used to completely cover a rectangular floor measuring 6.75 m by 3.6 m. Figure 2 shows an example of one such tile. How many rectangular tiles were used altogether?



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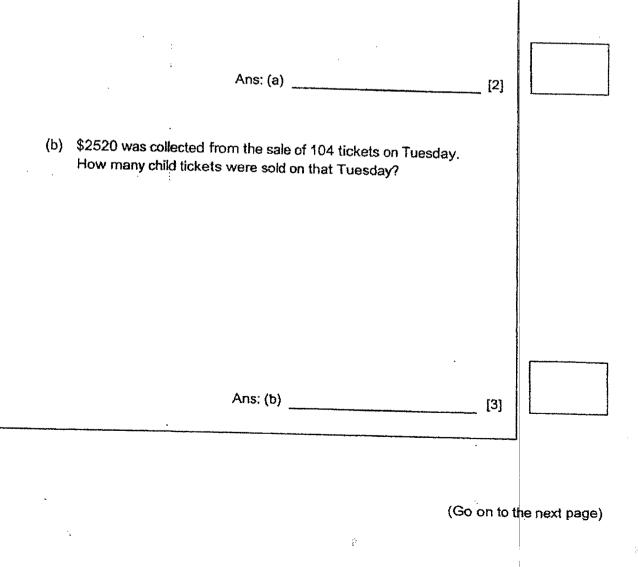
The table shows the cost of cable car tickets.

12

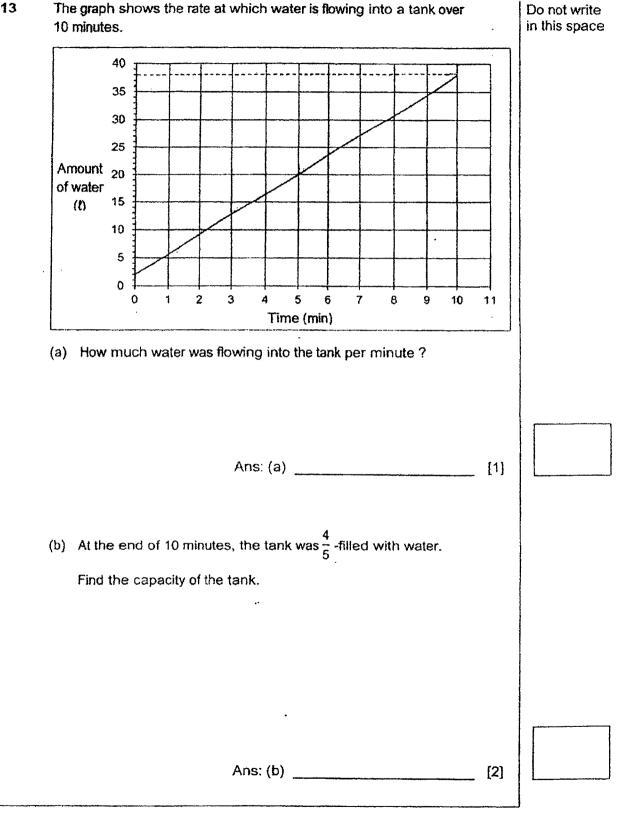
| Type of Ticket | Weekdays | Weekends & Public Holidays |
|-----------------------------------|----------|-------------------------------|
| Adult | \$28 | \$32 |
| Child (12 years old and below) | \$20 | \$24 |

9

(a) Mr Tan took a cable car ride with his wife and 2 children last Saturday. His children are 10 years old and 14 years old. How much did Mr Tan pay for the tickets altogether?



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11 The table shows the marks obtained by Jane and Susan for 4 subjects. 14 Do not write in this space Jane Susan English řÂ 90 **Mathematics** 78 Science 83 **Mother Tongue** 79 ? **Average Mark** 80.5 78 How many marks did Susan get for Mother Tongue? (a) Ans: (a) [2] (b) Part of Jane's marks was covered by an ink blot. What was the highest possible mark that she could have gotten for Mathematics? ÷ Ans: (b) [2] (Go on to the next page) <u>1</u>.

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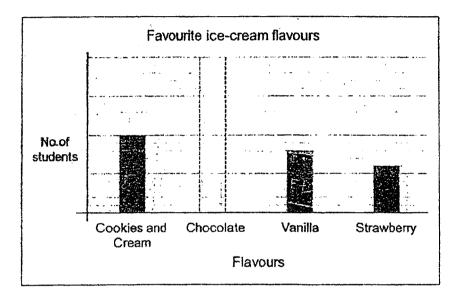
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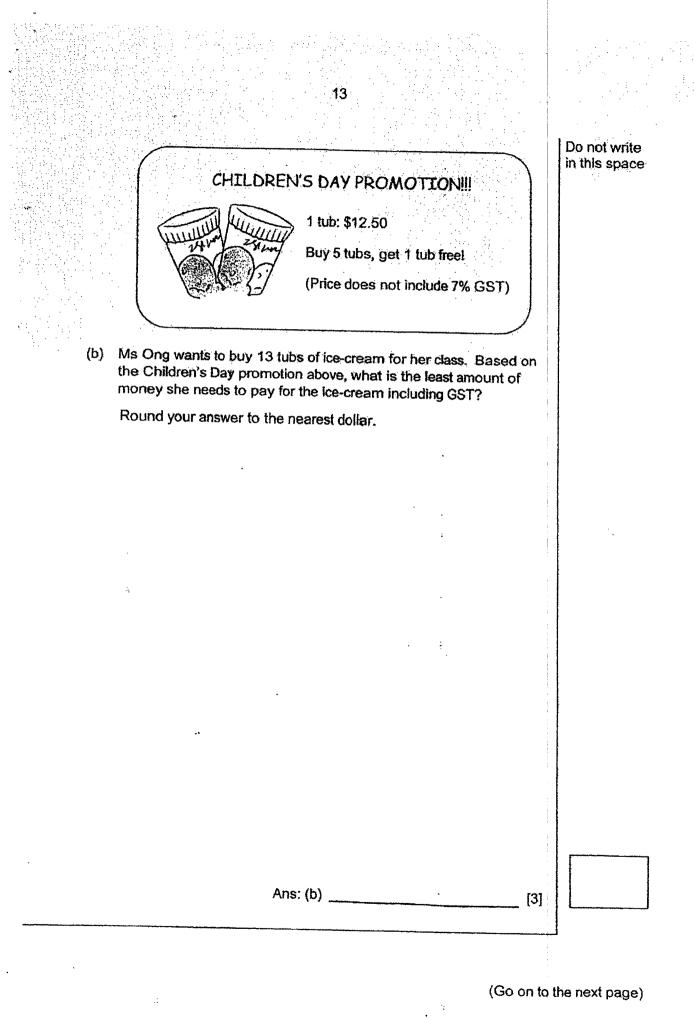
The table shows the favourite ice-cream flavours of some students.

| Ice-cream Flavours | Percentage of students | |
|--------------------|------------------------|--|
| Cookies and Cream | 25% | |
| Chocolate | 40% | |
| Vanilla | 20% | |
| Strawberry | 15% | |

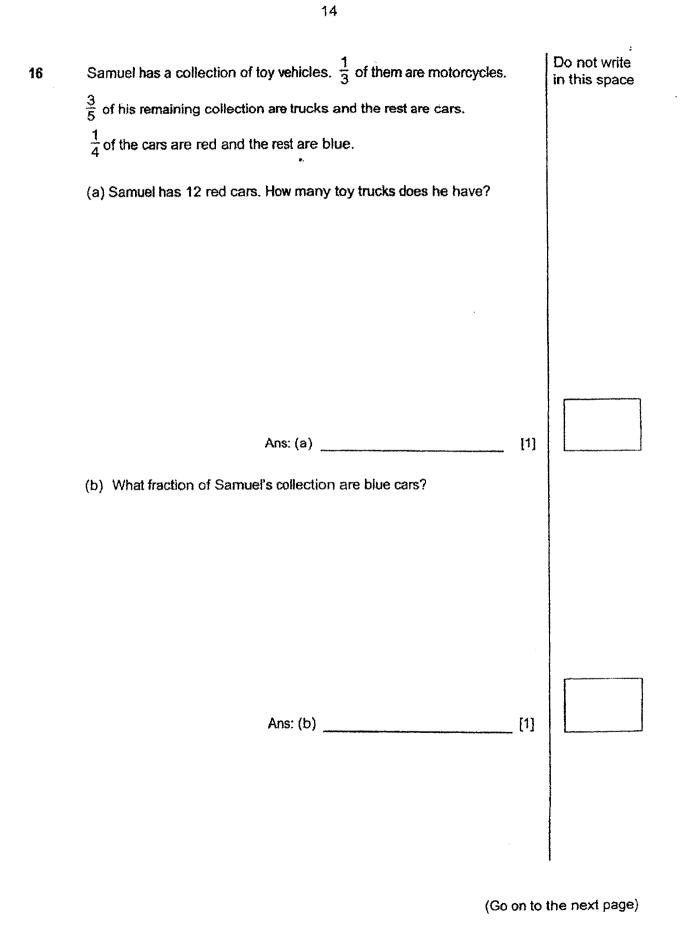


(a) Based on the table, draw in the bar to represent the percentage of students who like chocolate. [1]

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(c) Samuel's mother gave him some more motorcycles, such that $\frac{5}{8}$ of his collection are now motorcycles. How many motorcycles did Samuel's mother give him?

15

[3]

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Ans: (c)

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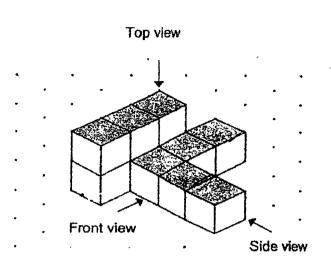
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The solid shown is made up of 1-cm cubes,



(a) Draw the side view in the square grid.

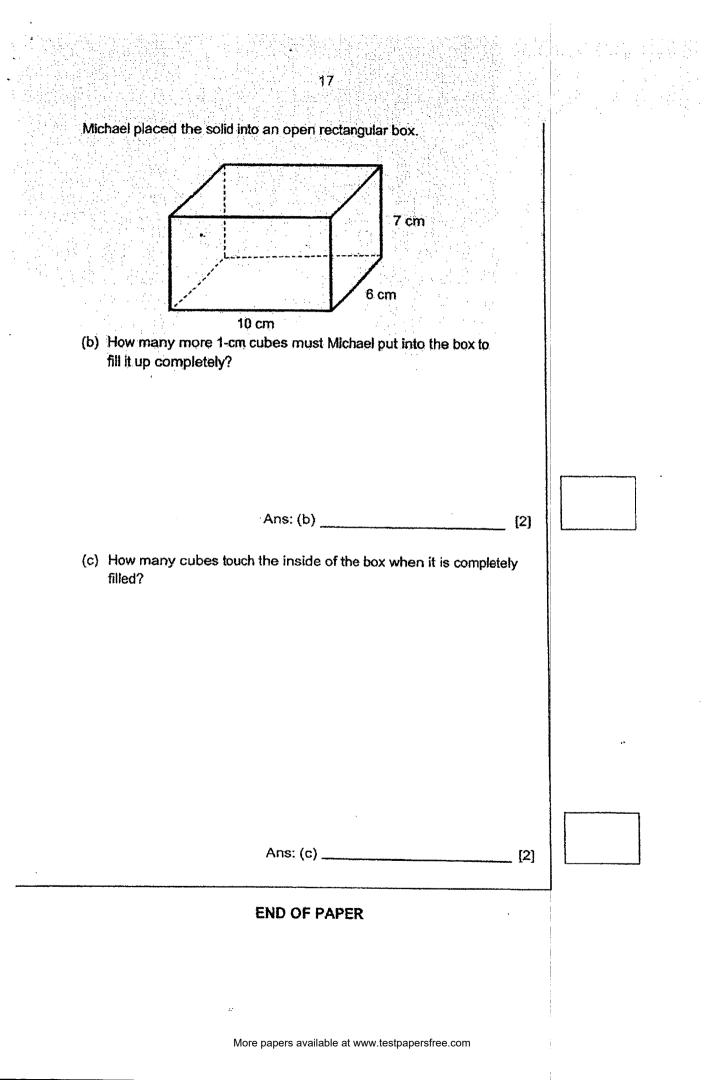
| Side View | | | | | |
|-----------|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
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| | | 이 전에 가지 않는 것 같아요. 이 것 같아. 것 같아. 집에서 물 것이 있는 것 같아. 동문은 것 같아. |
|-----|---------|---|
| ۰. | YEAR : | 2022 |
| : ' | LEVEL : | PRIMARY 5 |
| | SCHOOL | METHODIST GIRLS' SCHOOL (PRIMARY) |
| | SUBJECT | MATHEMATICS |
| | TERM. | END OF YEAR EXAMINATION |

PAPER 1 (BOOKLET A)

| | | · · · · · · · · · · · · · · · · · · · | · | | | 그 분위로 하는 | Kettingen han | | |
|-----|--------------|---------------------------------------|------------|-----|---|----------|---------------|-----|---|
| Q1 | 4 | Q2 | 1 | Q3 | 4 | Q4 | 4 | 05 | 7 |
| Q6 | 1 | Q7 | 3 . | Q8 | 2 | 09 | 3 | 010 | 1 |
| Q11 | 2 | Q12 | 2 | Q13 | 4 | Q14 | 2 | Q15 | 3 |
| | <u>ET B)</u> | | | • | | | | | |

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| Q16 | 729 000 | |
|-----|---|--|
| Q17 | (33 + 4 X 25) - (100 - 30 ÷ 6) | |
| | $=(33+100)-(100-30\div 6)$ | |
| | = 38 | |
| Q18 | 7160 ÷ 40 = 179ml | |
| Q19 | $\frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$ | |
| Q20 | 56 ÷ 8 = 7 | |
| | 28 ÷ 7 = 4 | |
| Q21 | a) Day 2 | |
| | b) 22.5 + 21.8 + 24.5 + 23.2 | |
| | = 92. 0 s | |
| Q22 | $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ | |
| | 1 | |
| | $=\frac{1}{2}$ | |
| | Ans : 30% | |
| Q23 | $\frac{1}{7} = \frac{5}{15} = \frac{10}{70}$ | |
| | $3 \frac{15}{30} \frac{15}{30} \frac{18}{30}$ | |
| | 5 30 | |
| | 18-10=8 | |
| Q24 | 210 - 25 = 185 | |
| | $185 \div 2 = 92.5 \text{ cm}$ | |
| Q25 | 4 x 3 x 10 = 120 | |
| | $120 \div 2 = 60 \text{ cm}^3$ | |
| Q26 | a) Not possible to tell / | |
| | b) True / | |
| Q27 | $\frac{2}{5} \times 100\% = 40\%$ | |
| L | | |

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| Q28 | |
|-----|---|
| Q29 | $\frac{1}{2} \times 12 \times 18 = 108$ |
| | $\frac{1}{2} \times 12 \times 6 = 36$ |
| | $108 - 36 = 72 \text{ cm}^2$ |
| Q30 | 46 ÷ 3 = 15R1 |
| | 6 x 15 = 90 |
| | 90 + 3 = 93 |

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YEAR : 2022 LEVEL : PRIMARY 5 SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY) SUBJECT : MATHEMATICS TERM : END OF YEAR EXAMINATION

| PAPER | 12 | |
|-------|--|---------------------------------------|
| Q1 | $\frac{1}{2}$ x 3500 = 1750 | |
| | 1750 - 400 = 1350 | |
| | 1.35kg | |
| Q2 | 4 + \$2.50 = \$6.50 | |
| | $$157 \div $6.50 = 24\frac{2}{13}$ | |
| | 24 x \$6.50 = \$156 | |
| | \$157 - \$156 = \$1 | |
| | 24 x 2.50 = \$60 | |
| Q3 | 14u : 126 | |
| | 1u:9 | |
| | 4u : 36m | |
| Q4 | $\frac{2}{3}$ x 30 x 20 x 25 = 10 000 | · · · · · · · · · · · · · · · · · · · |
| | 30 x 20 x 25 = 15 000 | |
| | 15 000 - 10 000 = 5000 | |
| | 5 litre | |
| Q5 | 64 + 47 = 111 | |
| | $180 - 111 = 69^{\circ}$ | |
| Q6 | Pens : Pencils | |
| | 72 : 48 | |
| | 3:2 | |
| | E:R | |
| | 3:2 | |
| | | |
| | Pens : 48% x 150 = 72 | |
| | 150 - 72 - 48 = 30 | |
| | E + R = 30 | |
| | 5u : 30 | |
| | 1u:76 | |
| 07 | <u>2u:12</u> | |
| Q7 | <u>10</u> : 2u | |
| | $1u:\frac{1}{20}$ | |
| | $\frac{1}{10} : 2u$ $1u : \frac{1}{20}$ R : $\frac{1}{4}$ of original $\frac{3}{4} : 315$ $\frac{4}{4} : 420 | |
| | <u>4</u> .31E | |
| | 515 4 | |
| | ± :\$420 | |

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| Q8 | 24 | 54 - 50 = 2404 | | | | | |
|-----|---|--|--|--|--|--|--|
| 40 | t | 04 + 20 = 2424 | | | | | |
| | 1 | | | | | | |
| | $2424 \div 4 = 606$ 1818 + 50 = 1868 | | | | | | |
| | 1 | | | | | | |
| | 1 | 5 - 20 = 586 58 - 586 - 1989 | | | | | |
| Q9 | ~ | 58 - 586 = 1282 + 86 = 160 | | | | | |
| 45 | í | -160 = 20 | | | | | |
| | | $0 - 20 - 20 = 140^{\circ}$ | | | | | |
| Q10 | 17 | | | | | | |
| QIU | a) | | | | | | |
| 1 | | 20 + 60 = 80 180 - 80 = 100 | | | | | |
| | | | | | | | |
| 1 | | 41 + 60 = 101 101 + 40 = 141 | | | | | |
| | | 101 + 40 = 141 $180 - 141 = 39^{\circ}$ | | | | | |
| | b) | | | | | | |
| Q11 | -f-h-main | | | | | | |
| QII | $15 \div 2 = 7.5$ 15 x 7.5 = 112.5 | | | | | | |
| | 5 | 5m : 675cm | | | | | |
| | f | 1 | | | | | |
| } | 3.6m : 360cm 675 x 360 = 243 000 | | | | | | |
| | í | $000 \div 112.5 = 2160 \text{ cm}^2$ | | | | | |
| Q12 | a) | 32 x 3 = 96 | | | | | |
| | | 96 + 24 = \$120 | | | | | |
| | b) | Suppose all are adult | | | | | |
| | 12, | Total : $28 \times 104 = 2912$ | | | | | |
| | | Extra : 2912 - 2520 = 392 | | | | | |
| | | Diff: $28 - 20 = 8$ | | | | | |
| | | Opposite : $392 \div 8 = 49$ | | | | | |
| Q13 | a) | 38 - 2 = 36 | | | | | |
| | | 36 ÷ 10 = 3.68 | | | | | |
| | b) | $\frac{4}{5}:38$ | | | | | |
| | | | | | | | |
| | | $\frac{1}{5}: 9.5$ | | | | | |
| | | $\frac{5}{5}$: 9.5 x 5 = 47.5 \pounds | | | | | |
| Q14 | a) | 78 x 4 = 312 | | | | | |
| | | 312 - 90 - 83 - 78 | | | | | |
| | | = 61 | | | | | |
| | b) | 80.5 x 4 = 322 | | | | | |
| | | 322 - 78 - 79 = 165 | | | | | |
| | | Sci : lowest possible | | | | | |
| | | 165 - 80 = 85 | | | | | |
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|---|---------|------------|---|
| | | a) | Favourile Ice-cream flavours |
| | | b) | 1 set : 6 tubs (\$62.50) |
| | | | 2 sets : 12 tubs (\$125) 125 + 12.50 = 137.50 107% x 137.50 = 147.125 ≈ \$147.00 |
| | Q16 | a) | 12 x 4 = 48 |
| | · | | 12 x 3 = 36 |
| | | | 48 ÷ 2 = 24 24 x 3 = 72 |
| | | b) | $\frac{2}{2} + \frac{2}{2} = \frac{4}{2}$ |
| | • | | $ \begin{array}{r} 5 3 15 \\ \frac{3}{7} \times \frac{4}{15} = \frac{3}{15} \\ \frac{3}{15} = \frac{1}{5} \end{array} $ |
| | | c) | Car : 12 x 4 = 48 trucks : 72 |
| | | | Cart trucks : 72 + 48 = 120 ($\frac{3}{8}$ of total) |
| | | | $\frac{1}{8}$ of total : 120 ÷ 3 = 40 |
| | | | $\frac{5}{8}$ of total : 40 x 5 = 200 |
| ŀ | Q17 | a) | MG: 200 - 60 = 140 |
| | | <i>a</i> j | Side View |
| | | b) | 10 x 6 x 7 = 420 |
| | 1 | | 420 - 11 = 409 |
| | | c) | 10 x 7 = 70 70 x 2 = 140 |
| | | | (6-2) x 7 = 28 |
| | | | 28 x 2 = 56 |

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